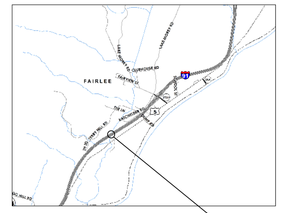
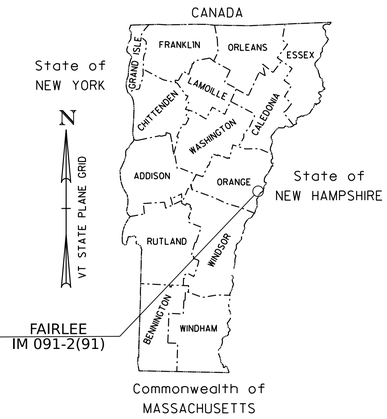
REVIEWER NOTES:

1. CONSTRUCTION WILL TAKE PLACE OVER TWO CONSTRUCTION SEASONS.
2. EXISTING RIGHT-OF-WAY RESEARCH HAS NOT BEEN COMPLETED WITHIN THE LIMITS OF THE CROSSOVERS. IT IS ANTICIPATED THAT ALL WORK WILL TAKE PLACE WITHIN THE HIGHWAY RIGHT-OF-WAY.
3. NO UTILITIES ARE IMPACTED BY THIS PROJECT.
4. PROJECT IS EXPECTED TO EXCEED 1 ACRE OF EARTH DISTURBANCE.
5. ANY STRUCTURAL ELEMENTS SHOWN IN THE PLANS ARE CONCEPTUAL AND THE FINAL DESIGN WILL BE BY THE FABRICATOR.
6. GEOTECHNICAL INVESTIGATION HAS NOT YET BEEN COMPLETED.
7. PAVEMENT DESIGN HAS NOT YET BEEN COMPLETED.

STATE OF VERMONT
AGENCY OF TRANSPORTATION





PROPOSED IMPROVEMENT
BRIDGE PROJECT

TOWN OF FAIRLEE

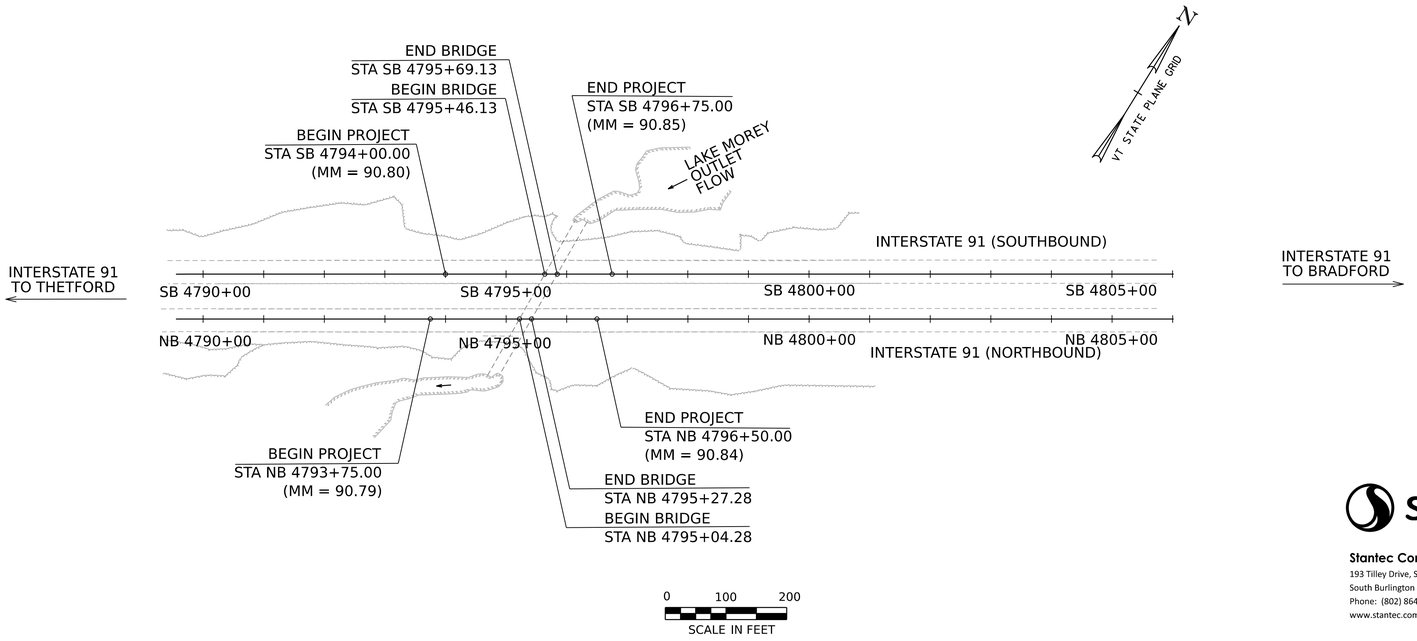
COUNTY OF ORANGE

ROUTE NO : INTERSTATE I-91; PRINCIPAL ARTERIAL - NHS — BRIDGE NO'S : 55-2 AND 55-3

PROJECT LOCATION : BRIDGES 55-2 AND 55-3 ARE LOCATED APPROXIMATELY 0.6 MILES SOUTH OF EXIT 15 ALONG INTERSTATE 91 (I-91).

PROJECT DESCRIPTION : REPLACEMENT OF BRIDGES 55-2 AND 55-3 WITH A PRECAST CONCRETE STRUCTURE AND CONSTRUCTION OF TEMPORARY CROSSOVERS, ALONG WITH RELATED APPROACH ROADWAY AND CHANNEL WORK.

BRIDGE 55-2 SOUTHBOUND		BRIDGE 55-2 NORTHBOUND		TOTAL	
LENGTH OF STRUCTURE :	23 FEET	LENGTH OF STRUCTURE :	23 FEET	LENGTH OF STRUCTURE :	46 FEET
LENGTH OF ROADWAY :	252 FEET	LENGTH OF ROADWAY :	252 FEET	LENGTH OF ROADWAY :	504 FEET
LENGTH OF PROJECT :	275 FEET	LENGTH OF PROJECT :	275 FEET	LENGTH OF PROJECT :	550 FEET



CONSTRUCTION IS TO BE CARRIED ON IN ACCORDANCE WITH THESE PLANS AND THE STANDARD SPECIFICATIONS FOR CONSTRUCTION DATED 2024, AS APPROVED BY THE FEDERAL HIGHWAY ADMINISTRATION ON JUNE 27, 2023 FOR USE ON THIS PROJECT, INCLUDING ALL SUBSEQUENT REVISIONS AND SUCH REVISED SPECIFICATIONS AND SPECIAL PROVISIONS AS ARE INCORPORATED IN THESE PLANS.

QUALITY ASSURANCE PROGRAM : LEVEL 1	
SURVEYED BY :	R. GILMAN
SURVEYED DATE :	06/13/2022
DATUM	
VERTICAL	NAVD88
HORIZONTAL	NAD 83 (2011)

PRELIMINARY
4/3/2024

Stantec
Stantec Consulting Services Inc.
193 Tilley Drive, Suite 1
South Burlington VT U.S.A. 05403
Phone: (802) 864-0223
www.stantec.com

APPROVED _____ DATE _____

PROJECT MANAGER : ADAM GOUDREAU, P.E.

PROJECT NAME : FAIRLEE
PROJECT NUMBER : IM 091-2(91)

SHEET 1 OF 100 SHEETS

STATE OF VERMONT
AGENCY OF TRANSPORTATION

PRELIMINARY INFORMATION SHEET (CULVERT)

Version
LRFD

PLAN SHEETS

1	TITLE SHEET
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8	LAYOUT PLAN SHEET
9	NB PROFILE SHEET
10	SB PROFILE SHEET
11	CULVERT PROFILE SHEET
12	TRAFFIC CONTROL NOTES AND TYPICALS
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27 - 35	I91 NB CROSSOVER XS SHEETS 1-9
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DETAIL SHEETS

HSD 213.01	MILLED RUMBLE STRIPS (SHOULDER)	2/27/2017
HSD 400.01	SAFETY DETAILS	1/5/2018

STANDARDS LIST

E-10	ROLLED EROSION CONTROL PRODUCT, TYPE I	04-07-2020
E-11	CHECK DAM, TYPE I	04-07-2020
E-12	STABILIZED CONSTRUCTION ENTRANCE	04-07-2020
E-13	INLET PROTECTION DEVICE, TYPE I	04-07-2020
E-14	INLET PROTECTION DEVICE, TYPE III	04-07-2020
E-15	SILT FENCE	04-07-2020
E-130	TYPE "B" GUIDE SIGN, ATTACHMENT DETAILS	08-08-1995
E-161	W-SHAPED STEEL SIGN POST	08-18-1995
F-2	CHAIN LINK FENCE, TYPE I DETAILS	06-01-1994
F-4	CHAIN LINK FENCE, TYPE II DETAILS	06-01-1994
G-1	STEEL BEAM GUARDRAIL DETAILS (POST, DELINEATOR, TYPICALS)	03-10-2017
G-1D	STEEL BEAM GUARDRAIL DETAILS (END TERMINAL, ANCHOR, MEDIAN)	03-10-2017
S-500	CONCRETE DETAILS AND NOTES	02-15-2023
S-501	CONCRETE DETAILS AND NOTES	02-15-2023
S-600	STRUCTURAL DETAILS AND NOTES	02-15-2023
S-601	STRUCTURAL STEEL PLATE GIRDER DETAILS AND NOTES	02-15-2023
T-1	TRAFFIC CONTROL GENERAL NOTES	04-25-2016
T-10	CONVENTIONAL ROADS CONSTRUCTION APPROACH SIGNING	08-06-2012
T-11	CONSTRUCTION APPROACH SIGNING DIVIDED HIGHWAY ONE LANE CLOSED	08-06-2012
T-12	TRAFFIC CONTROL DIVIDED HIGHWAY ONE LANE CLOSED	08-06-2012
T-13	TRAFFIC CONTROL DIVIDED HIGHWAY ONE LANE CLOSED	08-06-2012
T-14	TRAFFIC CONTROL DIVIDED HIGHWAY ONE ROADWAY CLOSED	08-06-2012
T-15	TRAFFIC CONTROL DIVIDED HIGHWAY ONE ROADWAY CLOSED	08-06-2012
T-22	TRAFFIC CONTROL FOR PAVEMENT MARKING ON DIVIDED HIGHWAY	08-06-2012
T-28	CONSTRUCTION SIGN DETAILS	08-06-2012
T-29	CONSTRUCTION SIGN DETAILS	08-06-2012
T-30	CONSTRUCTION SIGN DETAILS	02-17-2022
T-31	CONSTRUCTION SIGN DETAILS	08-06-2012
T-35	CONSTRUCTION ZONE LONGITUDINAL DROP-OFFS	08-06-2012
T-36	CONSTRUCTION ZONE LONGITUDINAL DROP-OFFS FOR PAVING	08-06-2012
T-40	DELINEATORS AND MILEPOSTS	01-02-2013
T-42	BRIDGE NUMBER PLAQUE	04-09-2014
T-43	FREEWAY - EXPRESSWAY DELINEATOR PLACEMENT	04-09-2014
T-45	SQUARE TUBE SIGN POST AND ANCHOR	01-02-2013
T-55	SIGN PLACEMENT EXPRESSWAY & FREEWAY	10-26-2015

FINAL HYDRAULIC REPORT

HYDROLOGIC DATA

Date: 3/4/2024

DRAINAGE AREA : 8.4 square miles
CHARACTER OF TERRAIN : Mixed forested and open land with Lake Morey just upstream
STREAM CHARACTERISTICS : Meandering low gradient valley bottom stream
NATURE OF STREAMBED : Silt, sand and gravel

PEAK FLOW DATA - ANNUAL EXCEEDANCE PROBABILITY (AEP)

50% =	160 cfs	2% =	500 cfs
10% =	320 cfs	1% =	580 cfs
4% =	420 cfs	0.2% =	680 cfs

NATURAL STREAM VELOCITY : N/A
IS STAGE AFFECTED BY UPSTREAM OR DOWNSTREAM CONDITIONS? Yes - D/S
IF YES, DESCRIBE: Tailwater conditions due to the mild gradient and US5 Bridge 90: 7-ft by 7-ft RCB constriction.

WATERSHED STORAGE: 10.8% HEADWATERS:
UNIFORM:
IMMEDIATELY ABOVE SITE: Lake Morey

EXISTING STRUCTURE INFORMATION

STRUCTURE TYPE: (2) 7-ft CGMPP
YEAR BUILT: 1971
CLEAR SPAN(NORMAL TO STREAM): 2 @ 7-ft diameter
VERTICAL CLEARANCE ABOVE STREAMBED: -
WATERWAY OF FULL OPENING: Total = 77 sqft
DISPOSITION OF STRUCTURE: Replacement
TYPE OF MATERIAL UNDER SUBSTRUCTURE: Unknown

WATER SURFACE ELEVATIONS AT:

50% AEP =	404.2 ft	VELOCITY =	3.5 fps
10% AEP =	406.9 ft	"	4.3 fps
4% AEP =	409.6 ft	"	5.5 fps
2% AEP =	411.9 ft	"	6.5 fps
1% AEP =	414.3 ft	"	7.6 fps

LONG TERM STREAMBED CHANGES: No

IS THE EXISTING BRIDGE ON THE VTRANS SCOUR CRITICAL LIST? N/A

IS THE ROADWAY OVERTOPPED BELOW 1% AEP: No
FREQUENCY: > 1%AEP
RELIEF ELEVATION: 431 ft +/- on both NB and SB lanes
DISCHARGE OVER ROAD @ 1% AEP: None
BRIDGE LOW CHORD ELEVATION: N/A

UPSTREAM STRUCTURE

TOWN: Fairlee — DISTANCE: 1000 ft
HIGHWAY # : TH-14 — STRUCTURE #: Culv ID 3
CLEAR SPAN: 6-ft — CLEAR HEIGHT: 6-ft
YEAR BUILT: unknown — FULL WATERWAY: 28.3 sqft
STRUCTURE TYPE: 6-ft corrugated metal pipe

DOWNSTREAM STRUCTURE

TOWN: Fairlee — DISTANCE: 450 ft
HIGHWAY # : US5 — STRUCTURE #: Bridge 90
CLEAR SPAN: 7-ft — CLEAR HEIGHT: 7-ft
YEAR BUILT: 1939 — FULL WATERWAY: 49 sqft
STRUCTURE TYPE: Reinforced Concrete Box

ADDITIONAL INFORMATION

PROPOSED STRUCTURE

STRUCTURE TYPE: 18.0 ft x 9.5 ft - Reinforced Concrete Box

CLEAR SPAN(NORMAL TO STREAM): 18.0 ft
VERTICAL CLEARANCE ABOVE STREAMBED: 7.5 ft (9.5 ft height embedded 2 ft)
WATERWAY OF FULL OPENING: 135 sqft

WATER SURFACE ELEVATIONS AT:

50% AEP =	403.2 ft	VELOCITY=	2.2 fps
10% AEP =	405.6 ft	"	2.7 fps
4% AEP =	407.0 ft	"	3.1 fps
2% AEP =	408.5 ft	"	3.7 fps
1% AEP =	409.8 ft	"	4.3 fps

IS THE ROADWAY OVERTOPPED BELOW 1% AEP: No
FREQUENCY: > 1%AEP
RELIEF ELEVATION: 431 ft +/- on both NB and SB lanes
DISCHARGE OVER ROAD @ 1% AEP: None

BRIDGE LOW CHORD ELEVATION: N/A
FREEBOARD: N/A

SCOUR: N/A the proposed is a reinforced concrete box culvert

REQUIRED CHANNEL PROTECTION: E-Stone Type II-streambed;Stone Fill Type II-banks

TEMPORARY BRIDGE REQUIREMENTS

STRUCTURE TYPE: N/A
CLEAR SPAN (NORMAL TO STREAM): -
VERTICAL CLEARANCE ABOVE STREAMBED: -
WATERWAY AREA OF FULL OPENING: -

ADDITIONAL INFORMATION

Tailwater conditions for the existing and proposed structures are controlled by US5 Bridge 90.

CALCULATIONS BY: PJR
CHECKED BY: KRF

LOADING LEVELS	TRUCK						
	H-20	HL-93	3S2	6 AXLE	3A. STR.	4A. STR.	5A. SEMI
TONNAGE	20	36	36	66	30	34.5	38
INVENTORY							
POSTING							
OPERATING							
COMMENTS:	TABLE TO BE COMPLETED BY CONTRACTOR'S DESIGNER						

CULVERT DESIGN CRITERIA

1. PROPOSED CULVERT IS A PRECAST CONCRETE STRUCTURE (18'-0" X 9'-6" X 256'-0" BOX).
2. CULVERT ENDS ARE NOT SKEWED.
3. CULVERT WILL BE SET AT A SLOPE OF 0.54 IN. ON 10 FT.
4. CULVERT WILL REQUIRE FISH PASSAGE ACCOMODATIONS
5. CULVERT CONSTRUCTION WILL REQUIRE A TEMPORARY PIPE

DESIGN VALUES

1.	DESIGN LIVE LOAD		HL-93
2.	FUTURE PAVEMENT	d_p:	3.0 INCH
3.	CULVERT OPENING	D:	18.00 FT
4.	MIN. MID-SPAN POS. CAMBER @ RELEASE (PRESTRESSED UNITS)	Δ:	---
5.	PRESTRESSING STRAND	f_y:	---
6.	PRESTRESSED CONCRETE STRENGTH	f'_c:	---
7.	PRESTRESSED CONCRETE RELEASE STRENGTH	f'_{ci}:	---
8.	HIGH PERFORMANCE CONCRETE, CLASS PCD	f'_c:	---
9.	HIGH PERFORMANCE CONCRETE, CLASS PCS	f'_c:	---
10.	CONCRETE HIGH PERFORMANCE, CLASS SCC	f'_c:	---
11.	CONCRETE, CLASS C	f'_c:	---
12.	REINFORCING STEEL	f_y:	60 KSI
13.	STRUCTURAL STEEL AASHTO M270	f_y:	---
14.	NOMINAL BEARING RESISTANCE OF SOIL	q_n:	---
15.	SOIL BEARING RESISTANCE FACTOR (REFER TO AASHTO LRFD)	ϕ:	---
16.	NOMINAL BEARING RESISTANCE OF ROCK	q_n:	---
17.	ROCK BEARING RESISTANCE FACTOR (REFER TO AASHTO LRFD)	ϕ:	---
18.	PILE RESISTANCE FACTOR	ϕ:	---
19.	LATERAL PILE DEFLECTION	Δ:	---
20.	BASIC WIND SPEED	V_{3s}:	---
21.	MINIMUM GROUND SNOW LOAD	P_g:	---
22.	SEISMIC DATA	PGA: --- S_s:	---
		S_1:	---
23.			
24.			---
25.			---
26.			---

TRAFFIC DATA

YEAR	ADT	DHV	% D	% T	ADTT
2025	5300	880	0	4.2	100
2045	5900	980	0	5.8	600

20 year ESAL for flexible pavement from 2025 to 2045 : 0
40 year ESAL for flexible pavement from 2025 to 2065 : 0
Design Speed : 70 mph

AS BUILT "REBAR" DETAIL

LEVEL I	LEVEL II	LEVEL III
TYPE:	TYPE:	TYPE:
GRADE:	GRADE:	GRADE:

Stantec

PROJECT NAME: FAIRLEE
PROJECT NUMBER: IM 091-2(91)

FILE NAME: z21a024PI.dgn
PROJECT LEADER: J. GRIGAS
DESIGNED BY: J. GRIGAS
PRELIMINARY INFORMATION SHEET

PLOT DATE: 4/3/2024
DRAWN BY: P. ARMATA
CHECKED BY: J. GRIGAS
SHEET 2 OF 100

GENERAL INFORMATION

SYMBOLOGY LEGEND NOTE

THE SYMBOLOGY ON THIS SHEET IS INTENDED TO COVER STANDARD CONVENTIONAL SYMBOLOGY. THE SYMBOLOGY IS USED FOR EXISTING & PROPOSED FEATURES WITH HEAVIER LINEWEIGHT, IN COMBINATION WITH PROJECT ANNOTATION, AS NOTED ON PROJECT PLAN SHEETS. THIS LEGEND SHEET COVERS THE BASICS. SYMBOLOGY ON PLANS MAY VARY, PLAN ANNOTATIONS AND NOTES SHOULD BE USED TO CLARIFY AS NEEDED.

R.O.W. ABBREVIATIONS (CODES) & SYMBOLS

POINT	CODE	DESCRIPTION
	BF	BARRIER FENCE
	CH	CHANNEL EASEMENT
	CONST	CONSTRUCTION EASEMENT
	CUL	CULVERT EASEMENT
	D&C	DISCONNECT & CONNECT
	DIT	DITCH EASEMENT
	DR	DRAINAGE EASEMENT
	DRIVE	DRIVEWAY EASEMENT
	EC	EROSION CONTROL
	HWY	HIGHWAY EASEMENT
	I&M	INSTALL & MAINTAIN EASEMENT
	LAND	LANDSCAPE EASEMENT
	PDF	PROJECT DEMARCATION FENCE
	R&RES	REMOVE & RESET
	R&REP	REMOVE & REPLACE
	R.T.& I.	RIGHT, TITLE, AND INTEREST
	SR	SLOPE RIGHT
	UE	UTILITY EASEMENT
	(P)	PERMANENT EASEMENT
	(T)	TEMPORARY EASEMENT
■	BNDNS	BOUND SET
⧈	BNDNS	BOUND TO BE SET
◎	IPNF	IRON PIN FOUND
●	IPNS	IRON PIN TO BE SET
⊠	CALC	EXISTING ROW POINT
○	PROW	PROPOSED ROW POINT
[LENGTH]		LENGTH CARRIED ON NEXT SHEET

COMMON TOPOGRAPHIC POINT SYMBOLS

POINT	CODE	DESCRIPTION
	APL	BOUND APPARENT LOCATION
	BM	BENCHMARK
	BND	BOUND
	CB	CATCH BASIN
	COMB	COMBINATION POLE
	DITHR	DROP INLET THROATED DNC
	EL	ELECTRIC POWER POLE
	FPOLE	FLAGPOLE
	GASFIL	GAS FILLER
	GP	GUIDE POST
	GSO	GAS SHUT OFF
	GUY	GUY POLE
	GUYW	GUY WIRE
	GV	GATE VALVE
	H	TREE HARDWOOD
	HCTRL	CONTROL HORIZONTAL
	HVCTRL	CONTROL HORIZ. & VERTICAL
	HYD	HYDRANT
	IP	IRON PIN
	IPIPE	IRON PIPE
	LI	LIGHT - STREET OR YARD
	MB	MAILBOX
	MH	MANHOLE (MH)
	MM	MILE MARKER
	PM	PARKING METER
	PMK	PROJECT MARKER
	POST	POST STONE/WOOD
	RRSIG	RAILROAD SIGNAL
	RRSL	RAILROAD SWITCH LEVER
	S	TREE SOFTWOOD
	SAT	SATELLITE DISH
	SHRUB	SHRUB
	SIGN	SIGN
	STUMP	STUMP
	TEL	TELEPHONE POLE
	TIE	TIE
	TSIGN	SIGN W/DOUBLE POST
	VCTRL	CONTROL VERTICAL
	WELL	WELL
	WSO	WATER SHUT OFF

THESE ARE COMMON VAOT SURVEY POINT SYMBOLS FOR EXISTING FEATURES, ALSO USED FOR PROPOSED FEATURES WITH HEAVIER LINEWEIGHT, IN COMBINATION WITH PROPOSED ANNOTATION.

PROPOSED GEOMETRY CODES

CODE	DESCRIPTION
PC	POINT OF CURVATURE
PI	POINT OF INTERSECTION
CC	CENTER OF CURVE
PT	POINT OF TANGENCY
PCC	POINT OF COMPOUND CURVE
PRC	POINT OF REVERSE CURVE
POB	POINT OF BEGINNING
POE	POINT OF ENDING
STA	STATION PREFIX
AH	AHEAD STATION SUFFIX
BK	BACK STATION SUFFIX
D	CURVE DEGREE OF (100FT)
R	CURVE RADIUS OF
T	CURVE TANGENT LENGTH
L	CURVE LENGTH OF
E	CURVE EXTERNAL DISTANCE
CB	CHORD BEARING

UTILITY SYMBOLOGY

UNDERGROUND UTILITIES

- UGU — UTILITY (GENERIC-UNKNOWN)
- UT — TELEPHONE
- UE — ELECTRIC
- UC — CABLE (TV)
- UEC — ELECTRIC+CABLE
- UET — ELECTRIC+TELEPHONE
- UCT — CABLE+TELEPHONE
- UECT — ELECTRIC+CABLE+TELEPHONE
- G — GAS LINE
- W — WATER LINE
- S — SANITARY SEWER (SEPTIC)

ABOVE GROUND UTILITIES (AERIAL)

- AGU — UTILITY (GENERIC-UNKNOWN)
- T — TELEPHONE
- E — ELECTRIC
- C — CABLE (TV)
- EC — ELECTRIC+CABLE
- ET — ELECTRIC+TELEPHONE
- AER E&T — ELECTRIC+TELEPHONE
- CT — CABLE+TELEPHONE
- ECT — ELECTRIC+CABLE+TELEPHONE
- UTILITY POLE GUY WIRE

PROJECT CONSTRUCTION SYMBOLOGY

PROJECT DESIGN & LAYOUT SYMBOLOGY

- CZ — CLEAR ZONE
- PLAN LAYOUT MATCHLINE

PROJECT CONSTRUCTION FEATURES

- TOP OF CUT SLOPE
- TOE OF FILL SLOPE
- STONE FILL
- BOTTOM OF DITCH ℄
- CULVERT PROPOSED
- STRUCTURE SUBSURFACE
- PDF — PDF — PROJECT DEMARCATION FENCE
- BF — BF — BARRIER FENCE
- TREE PROTECTION ZONE (TPZ)
- STRIPING LINE REMOVAL
- SHEET PILES

CONVENTIONAL BOUNDARY SYMBOLOGY

BOUNDARY LINES

- TOWN LINE — TOWN BOUNDARY LINE
- COUNTY LINE — COUNTY BOUNDARY LINE
- STATE LINE — STATE BOUNDARY LINE
- PROPOSED STATE R.O.W. (LIMITED ACCESS)
- PROPOSED STATE R.O.W.
- STATE ROW (LIMITED ACCESS)
- STATE ROW
- TOWN ROW
- PERMANENT EASEMENT LINE (P)
- TEMPORARY EASEMENT LINE (T)
- SURVEY LINE
- P/L — PROPERTY LINE (P/L)
- SR SR SR — SLOPE RIGHTS
- 6f — 6f — 6F PROPERTY BOUNDARY
- 4f — 4f — 4F PROPERTY BOUNDARY
- HAZ — HAZ — HAZARDOUS WASTE

EPSC LAYOUT PLAN SYMBOLOGY

EPSC MEASURES

- FILTER CURTAIN
- SILT FENCE
- SILT FENCE WOVEN WIRE
- CHECK DAM
- DISTURBED AREAS REQUIRING RE-VEGETATION
- EROSION MATTING

SEE EPSC DETAIL SHEETS FOR ADDITIONAL SYMBOLOGY

ENVIRONMENTAL RESOURCES

- WETLAND BOUNDARY
- RIPARIAN BUFFER ZONE
- WETLAND BUFFER ZONE
- SOIL TYPE BOUNDARY
- T&E — THREATENED & ENDANGERED SPECIES
- HAZ — HAZ — HAZARDOUS WASTE AREA
- AG — AGRICULTURAL LAND
- HABITAT — FISH & WILDLIFE HABITAT
- FLOOD PLAIN — FLOOD PLAIN
- OHW — ORDINARY HIGH WATER (OHW)
- STORM WATER
- USDA FOREST SERVICE LANDS
- WILDLIFE HABITAT SUIT/CONN

ARCHEOLOGICAL & HISTORIC

- ARCH — ARCHEOLOGICAL BOUNDARY
- HISTORIC DIST — HISTORIC DISTRICT BOUNDARY
- HISTORIC — HISTORIC AREA
- (H) HISTORIC STRUCTURE

CONVENTIONAL TOPOGRAPHIC SYMBOLOGY

EXISTING FEATURES

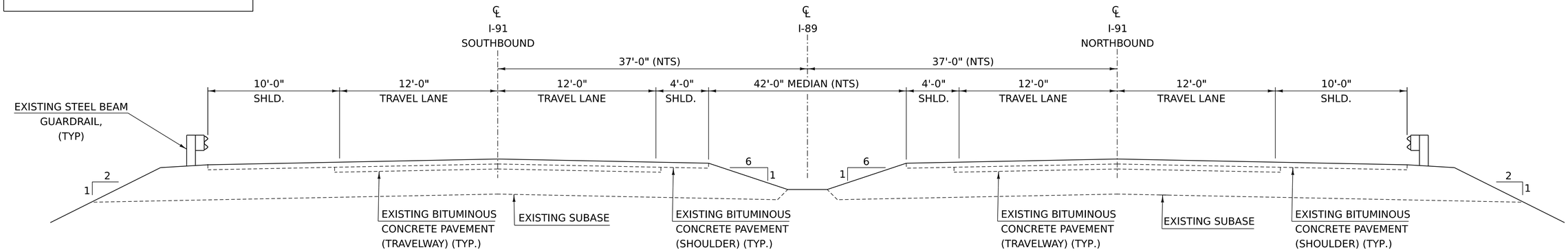
- ROAD EDGE PAVEMENT
- ROAD EDGE GRAVEL
- DRIVEWAY EDGE
- DITCH
- FOUNDATION
- FENCE (EXISTING)
- FENCE WOOD POST
- FENCE STEEL POST
- GARDEN
- ROAD GUARDRAIL
- RAILROAD TRACKS
- CULVERT (EXISTING)
- STONE WALL
- WALL
- WOOD LINE
- BRUSH LINE
- HEDGE
- BODY OF WATER EDGE
- LEDGE EXPOSED

Stantec

PROJECT NAME:	FAIRLEE
PROJECT NUMBER:	IM 091-2(91)
FILE NAME: z21a024symb.dgn	PLOT DATE: 4/3/2024
PROJECT LEADER: VTrans	DRAWN BY: VTrans
DESIGNED BY: VTrans	CHECKED BY: VTrans
CONVENTIONAL SYMBOLOGY LEGEND SHEET	SHEET 3 OF 100

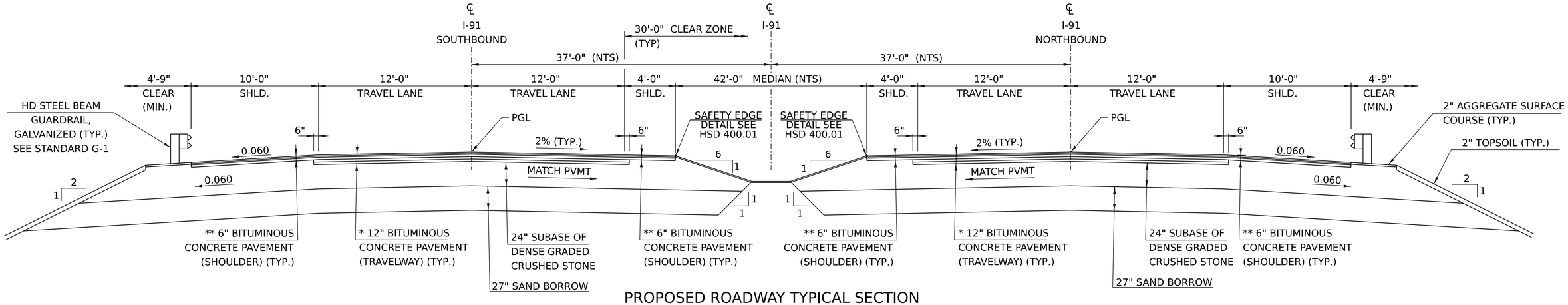
MATERIAL TOLERANCES
(IF USED ON PROJECT)

SURFACE	
- PAVEMENT (TOTAL THICKNESS)	+/- ¼"
SUBBASE	+/- 1"



EXISTING ROADWAY TYPICAL SECTION

NOT TO SCALE (NTS)



PROPOSED ROADWAY TYPICAL SECTION

NOT TO SCALE (NTS)

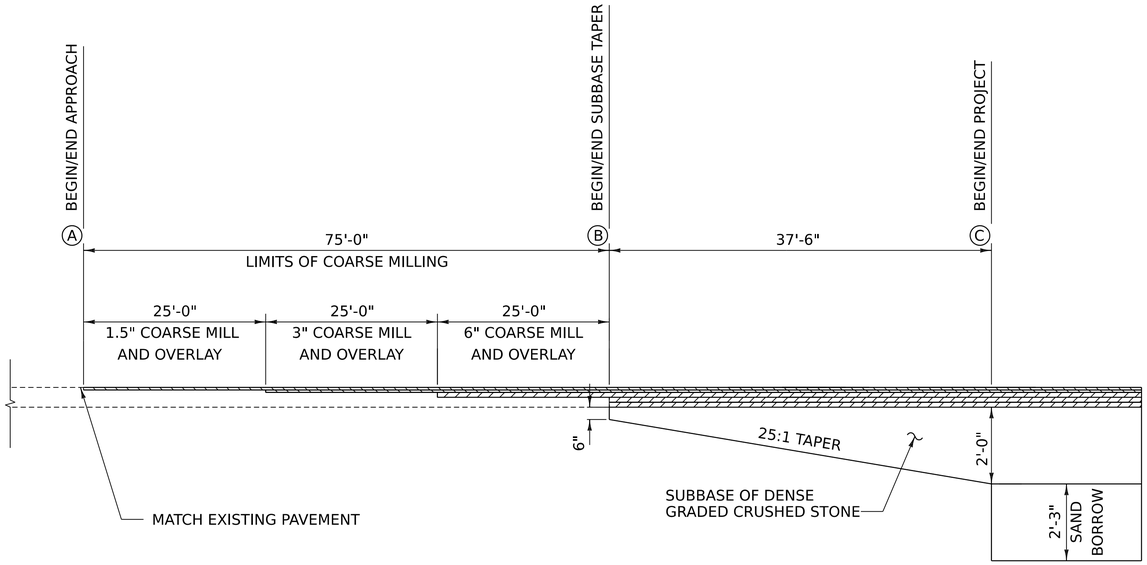
* TRAVELWAY PAVEMENT
1½" TYPE IVS OVER
1½" TYPE IVS OVER
3" TYPE IIS OVER
3" OF TYPE IIS OVER
3" OF TYPE IIS

** SHOULDER PAVEMENT
1½" LIFT OF TYPE IVS OVER
1½" LIFT OF TYPE IVS OVER
3" LIFT OF TYPE IIS

NOTES:
1. RUMBLE STRIPS TO BE INSTALLED ON ALL SHOULDERS PER HIGHWAY SAFETY & DESIGN DETAIL HSD-213.01

Stantec

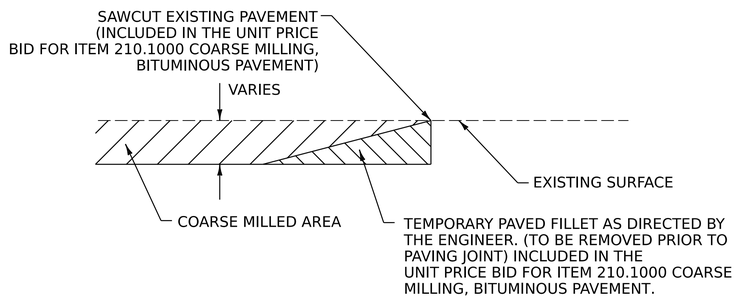
PROJECT NAME:	FAIRLEE		
PROJECT NUMBER:	IM 091-2(91)		
FILE NAME:	z21a024typ.dgn	PLOT DATE:	4/3/2024
PROJECT LEADER:	J. GRIGAS	DRAWN BY:	P. ARMATA
DESIGNED BY:	K. RICHARDSON	CHECKED BY:	J. GRIGAS
TYPICAL SECTION SHEET 1		SHEET	4 OF 100



	A	B	C
NORTHBOUND			
SOUTH APPROACH	4792+62.50	4793+37.50	4793+75.00
NORTH APPROACH	4797+62.50	4796+87.50	4796+50.00
SOUTHBOUND			
SOUTH APPROACH	4792+87.50	4793+62.50	4794+00.00
NORTH APPROACH	4797+87.50	4797+12.50	4796+75.00

TYPICAL APPROACH SECTION

NOT TO SCALE



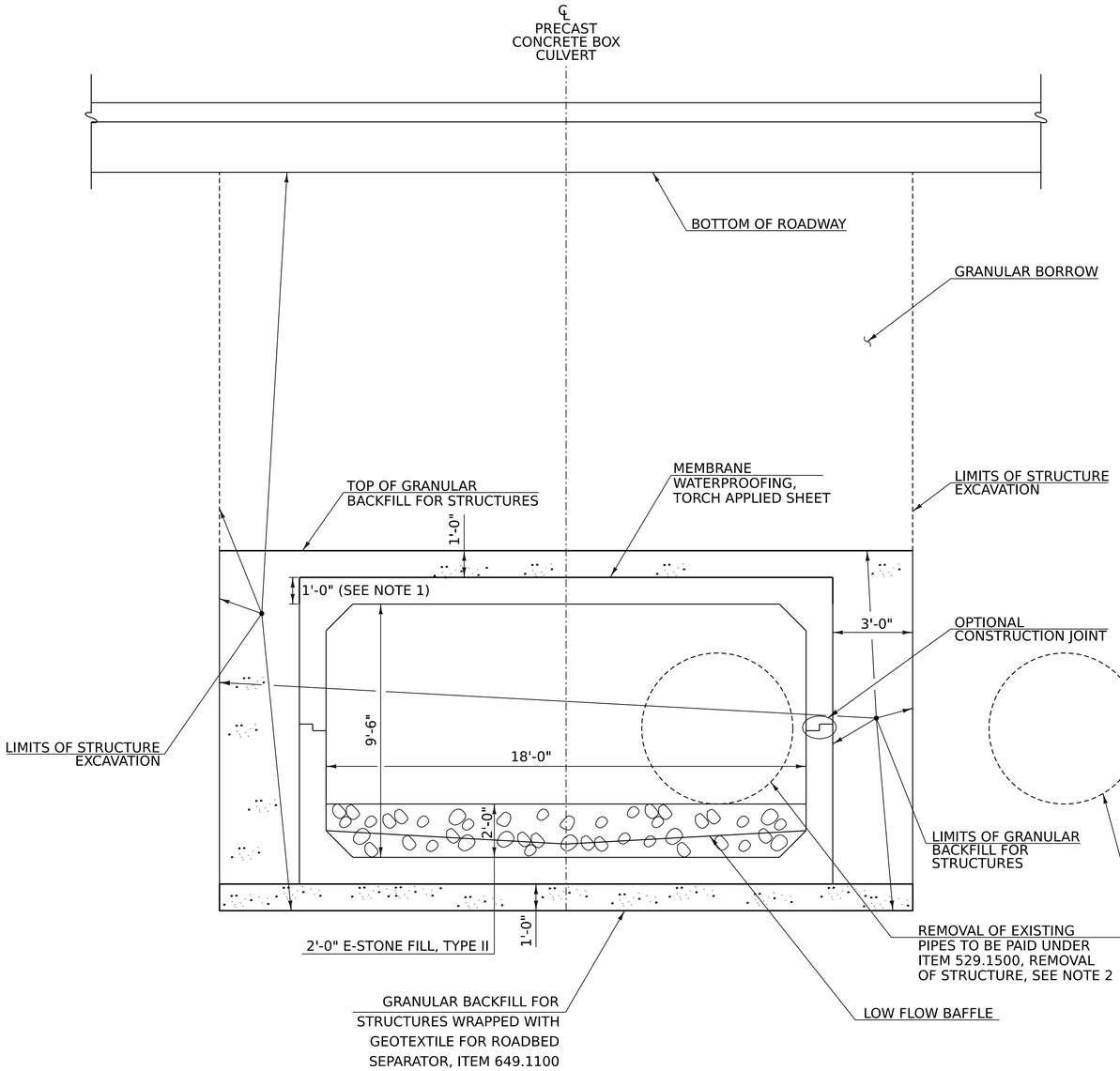
NOTE: THIS DETAIL SHALL BE USED AT THE LOCATIONS SHOWN ABOVE AS DIRECTED BY THE ENGINEER.

DETAIL AT VERTICAL COARSE MILLING JOINTS

NOT TO SCALE

Stantec

PROJECT NAME:	FAIRLEE
PROJECT NUMBER:	IM 091-2(91)
FILE NAME: z21a024typ.dgn	PLOT DATE: 4/3/2024
PROJECT LEADER: J. GRIGAS	DRAWN BY: P. ARMATA
DESIGNED BY: K. RICHARDSON	CHECKED BY: J. GRIGAS
TYPICAL SECTION SHEET 2	SHEET 5 OF 100

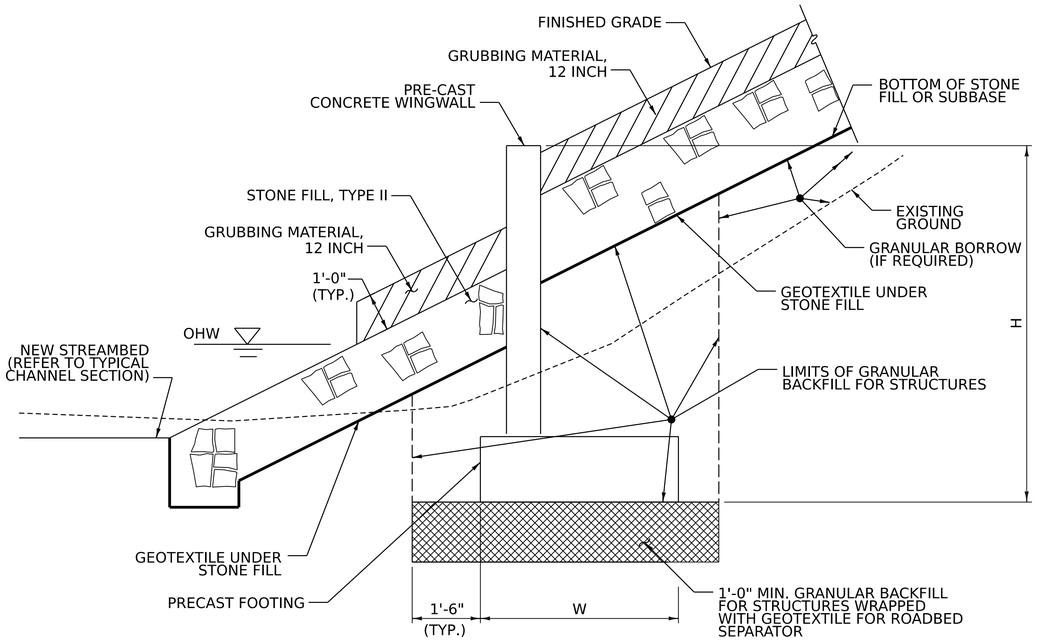


PRECAST CONCRETE BOX TYPICAL SECTION

SCALE ⅜" = 1'-0"

NOTES:

1. MEMBRANE WATERPROOFING, TORCH APPLIED SHEET SHALL BE APPLIED ACROSS THE TOP OF THE BOX AND 1'-0" ON EACH SIDE.
2. THE EXISTING PIPE OUTSIDE THE LIMITS OF STRUCTURE EXCAVATION MAY BE FILLED WITH CONTROLLED DENSITY FLOWABLE FILL INSTEAD OF REMOVAL. ALL COSTS WILL BE CONSIDERED INCIDENTAL TO ITEM 529.1500, REMOVAL OF STRUCTURE.

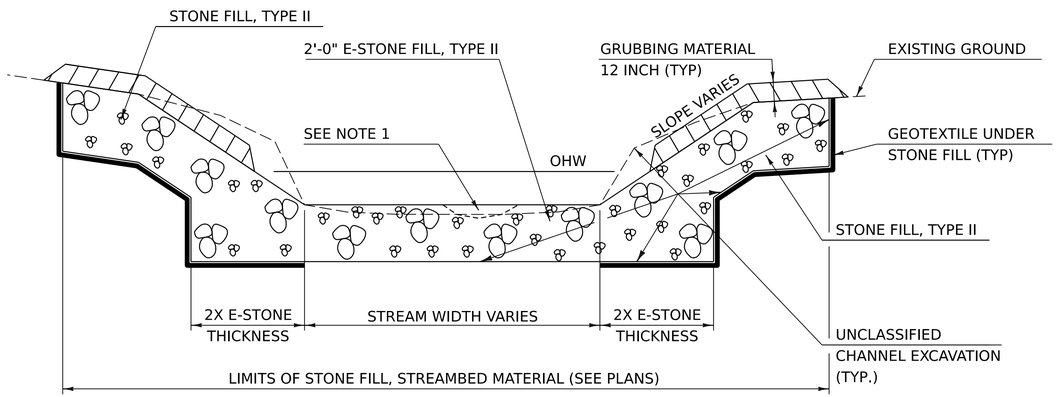


WINGWALL EARTHWORK SECTION

NOT TO SCALE

NOTES:

1. CANTILEVER WALLS SHOWN, OTHER APPROVED WALL SYSTEMS MAY BE USED.
2. FOR THE PURPOSES OF ESTIMATING EARTHWORK QUANTITIES IT HAS BEEN ASSUMED THAT W = 0.6 x H.
3. IF LOOSE OR SOFT SOILS ARE ENCOUNTERED, THE EXISTING MATERIALS SHALL BE UNDERCUT AN ADDITIONAL 12" AND A GEOTEXILE MEETING THE REQUIREMENTS OF SECTION 649 FOR GEOTEXTILE FOR ROAD BED SEPARATOR, SHALL BE PLACED ON THE EXCAVATED SURFACE AND BACKFILLED WITH CRUSHED STONE BEDDING.



TYPICAL CHANNEL SECTION

NOT TO SCALE

NOTES:

1: A CHANNEL SHALL BE CONSTRUCTED TO GRADE SIMILARLY TO A NATURAL LOW FLOW CHANNEL.

2: STONE FILL SHALL BE PLACED OVER THE GEOTEXTILE BY METHODS THAT DO NOT STRETCH, TEAR, PUNCTURE, OR REPOSITION THE FABRIC.

Stantec

PROJECT NAME:	FAIRLEE		
PROJECT NUMBER:	IM 091-2(91)		
FILE NAME:	z21a024typ.dgn	PLOT DATE:	4/3/2024
PROJECT LEADER:	J. GRIGAS	DRAWN BY:	P. ARMATA
DESIGNED BY:	J. GRIGAS	CHECKED BY:	J. GRIGAS
TYPICAL SECTION SHEET 3		SHEET	6 OF 100

GPS CONTROL POINTS

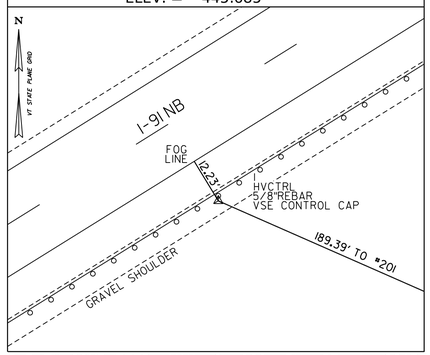
BRADFORD CORS ARP

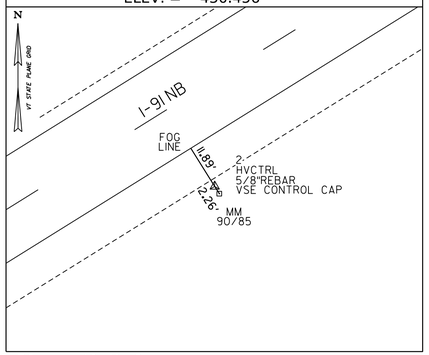
PID DJ8957
N = 549808.851
E = 1741884.597
ELLIP HEIGHT = 414.756

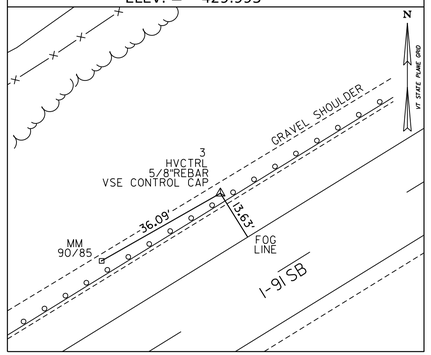
STATION IS A GPS CONTINOUSLY OPERATING REFERENCE STATION. STATION IS THE ANTENNA REFERENCE POINT OF THE GPS ANTENNA. THE ANTENNA IS MOUNTED ON THE ROOF OF OXBOW HIGH SCHOOL IN BRADFORD, VERMONT. THE ANTENNA IS ATTACHED TO THE TWO STORY CONCRETE/BRICK BUILDING WITH A 6 FT CONCRETE FOUNDATION BUILT IN 1972. THE MAST IS A 1.75 INCH DIA GALV PIPE THAT IS 108 INCHES LONG. THE MAST IS ATTACHED TO A STEEL MOUNTING FRAME WITH THREE ATTACHMENTS CONSISTING OF 3/8 INCH SS THROUGH BOLTS. THE MOUNTING FRAME IS ATTACHED TO THE BUILDING USING 8 ATTACHMENT POINTS. THE TOP 4 ARE 1/2 INCH SS BOLTS SECURED TO THE BRICK OR CONC WITH LEAD ANCHORS. THE BOTTOM 4 ATTACHMENTS ARE TROUGH BOLTED AND CONSIST OF 1/2 INCH SS THREADED ROD AND NUTS.

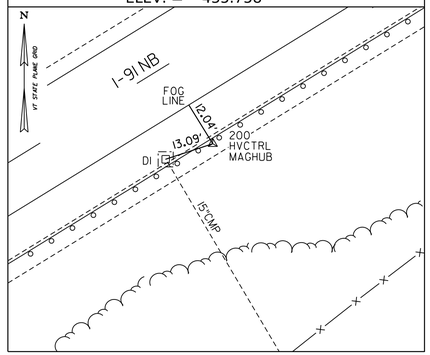
TRAVERSE TIES

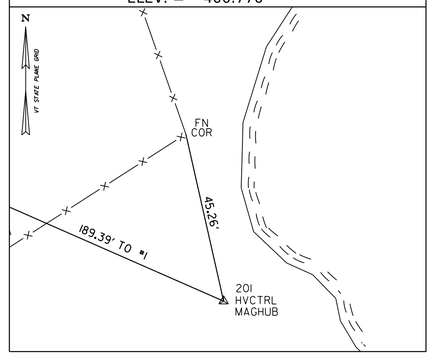
HVCTRL #1	HVCTRL #2	HVCTRL #3	HVCTRL #200	HVCTRL #201
NORTH = 509670.405	NORTH = 509998.337	NORTH = 510121.394	NORTH = 509828.374	NORTH = 509594.214
EAST = 1728836.080	EAST = 1729365.920	EAST = 1729331.160	EAST = 1729091.854	EAST = 1729009.470
ELEV. = 445.685	ELEV. = 430.456	ELEV. = 429.993	ELEV. = 435.758	ELEV. = 400.770







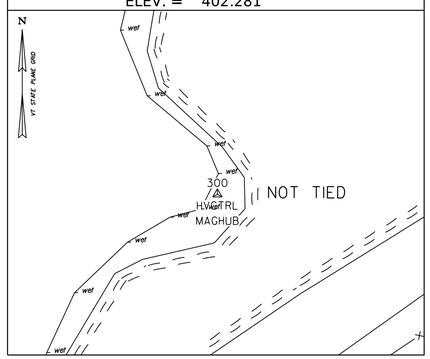


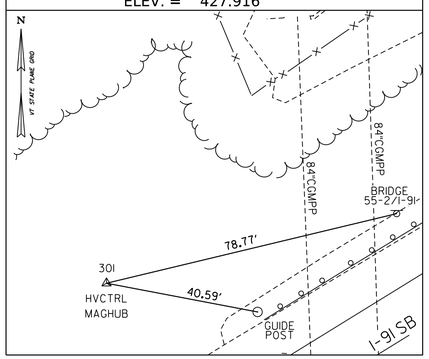


SURVEY COMPLETED: MAY 19, 2021 BY VSE, A. SCARZELLO-PC, J. KOVANIC

TRAVERSE TIES

HVCTRL #300	HVCTRL #301			
NORTH = 510213.552	NORTH = 510045.432	NORTH =	NORTH =	NORTH =
EAST = 1729261.193	EAST = 1729154.757	EAST =	EAST =	EAST =
ELEV. = 402.281	ELEV. = 427.916	ELEV. =	ELEV. =	ELEV. =





DATUM

VERTICAL NAVD88
HORIZONTAL NAD83(2011)
ADJUSTMENT LSQ

PROJECT NAME: FAIRLEE
PROJECT NUMBER: IM 091-2(91)

FILE NAME: z21a024ti.dgn
PROJECT LEADER:
DESIGNED BY:
TIE SHEET

PLOT DATE: 3-APR-2024
DRAWN BY: M. BACKMAN
CHECKED BY: A. McQUEENEY
SHEET 7 OF 100

MILLED RUMBLE STRIPS, SHOULDER
STA. NB 4792+62.5 TO NB 4797+62.5, LT & RT
STA. SB 4792+87.5 TO SB 4797+87.5, LT & RT

REMOVAL OF EXISTING FENCE
STA. NB 4792+62.5 TO NB 4795+76.0, RT
STA. SB 4792+77.0 TO SB 4797+87.5, LT

REMOVAL OF GUARDRAIL
STA. NB 4793+38.0 TO NB 4795+13.0, RT
STA. SB 4795+63.5 TO SB 4797+38.5, LT

HD STEEL BEAM GUARDRAIL
STA. NB 4793+38.0 TO NB 4795+13.0, RT
STA. SB 4795+63.5 TO SB 4797+38.5, LT

DECOMMISSION DROP INLET AND CULVERT
STA. NB 4793+53, RT

ANCHOR FOR STEEL BEAM GUARDRAIL
STA. NB 4795+00.5, RT
STA. SB 4795+76.0, LT

REMOVAL OF EXISTING CURB
STA. NB 4791+11.0 TO NB 4793+52.5, RT

WOVEN WIRE FENCE WITH STEEL POSTS
STA. NB 4792+62.5 TO NB 4794+57.0, RT
STA. NB 4794+77.0 TO NB 4795+76.0, RT
STA. SB 4792+77.0 TO SB 4795+83.0, LT
STA. SB 4796+18.0 TO SB 4797+87.5, LT

STEEL BRACE FOR WOVEN WIRE FENCE
STA. NB 4792+62.5, RT
STA. NB 4794+57.0, RT
STA. NB 4794+77.0, RT
STA. NB 4795+03.0, RT (2)
STA. NB 4795+76.0 RT
STA. SB 4792+77.0, LT
STA. SB 4795+73.0, LT (2)
STA. SB 4795+83.0, LT
STA. SB 4796+18.0, LT
STA. SB 4797+87.5, LT

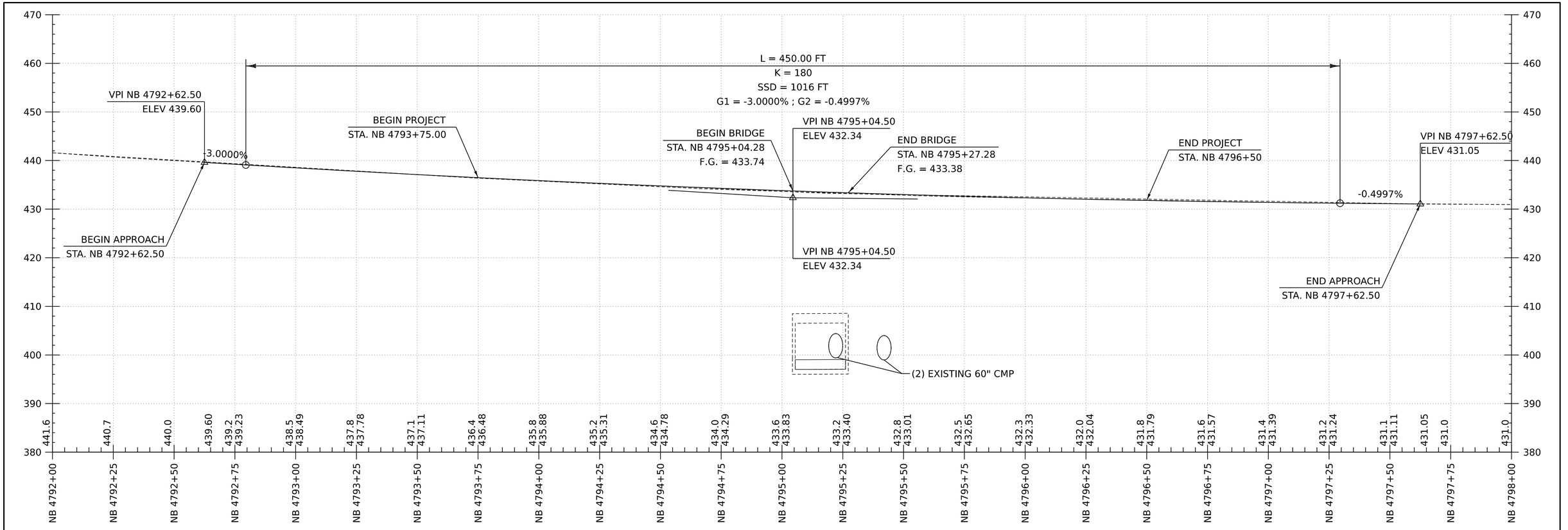
N
VT STATE PLANE GRID

APPROX. EXISTING R.O.W.
APPROX. EXISTING R.O.W.
TEMPORARY CONSTRUCTION LIMITS
LAKE MOREY OUTLET FLOW
N36°23'12"E
54+00
POE 54+74.19
BEGIN APPROACH
SB 4792+87.50
BEGIN PROJECT
SB 4794+00.00
END BRIDGE
SB 4795+69.13
BEGIN BRIDGE
SB 4795+46.13
POT 53+98.69
END PROJECT
SB 4796+75.00
END APPROACH
SB 4797+87.50
TO THETFORD
INTERSTATE 91 (SOUTHBOUND)
N58°18'05"E
SB 4793+00
SB 4794+00
SB 4795+00
SB 4796+00
SB 4797+00
SB 4798+00
53+00
NB 4795+15.78
CHAN 52+11.01
Δ= 60°34'00" LT
SB 4795+57.78
CHAN 52+95.98
Δ= 60°34'00" LT
N02°15'55"W
BEGIN APPROACH
NB 4792+62.50
BEGIN PROJECT
NB 4793+75.00
BEGIN BRIDGE
NB 4795+04.28
END PROJECT
NB 4796+50.00
TO BRADFORD
INTERSTATE 91 (NORTHBOUND)
N58°18'05"E
NB 4793+00
NB 4794+00
NB 4795+00
NB 4796+00
NB 4797+00
NB 4798+00
51+00
STONE FILL, TYPE II
(TYP.)
POB 50+00.00
END BRIDGE
NB 4795+27.28
END APPROACH
NB 4797+62.50
E-STONE FILL, TYPE II
(TYP.)
POT 50+90.36
TEMPORARY CONSTRUCTION LIMITS
N54°21'16"E
50+00
APPROX. EXISTING R.O.W.

0 20 40
SCALE IN FEET

Stantec

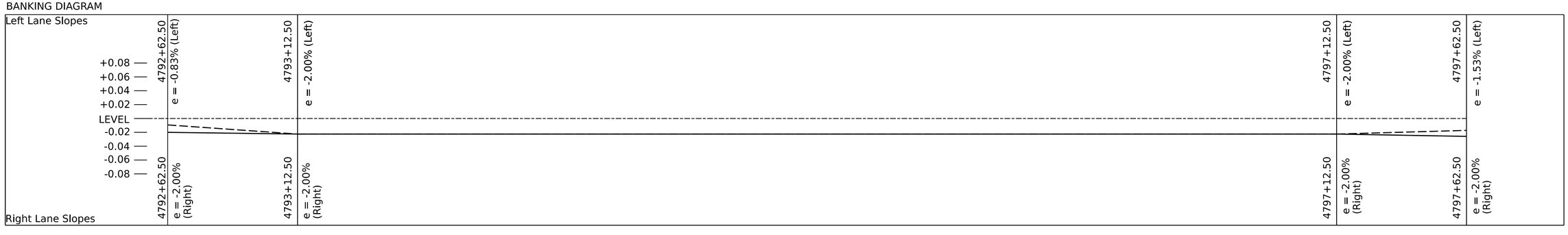
PROJECT NAME:	FAIRLEE
PROJECT NUMBER:	IM 091-2(91)
FILE NAME: z21a024bdr_gen.dgn	PLOT DATE: 3-APR-2024
PROJECT LEADER: J. GRIGAS	DRAWN BY: P.ARMATA
DESIGNED BY: K. RICHARDSON	CHECKED BY: J. GRIGAS
LAYOUT PLAN SHEET	SHEET 8 OF 100



I-91 NORTHBOUND PROPOSED PROFILE

SCALE:1"=20' H
1"=10' V

BANKING DIAGRAM

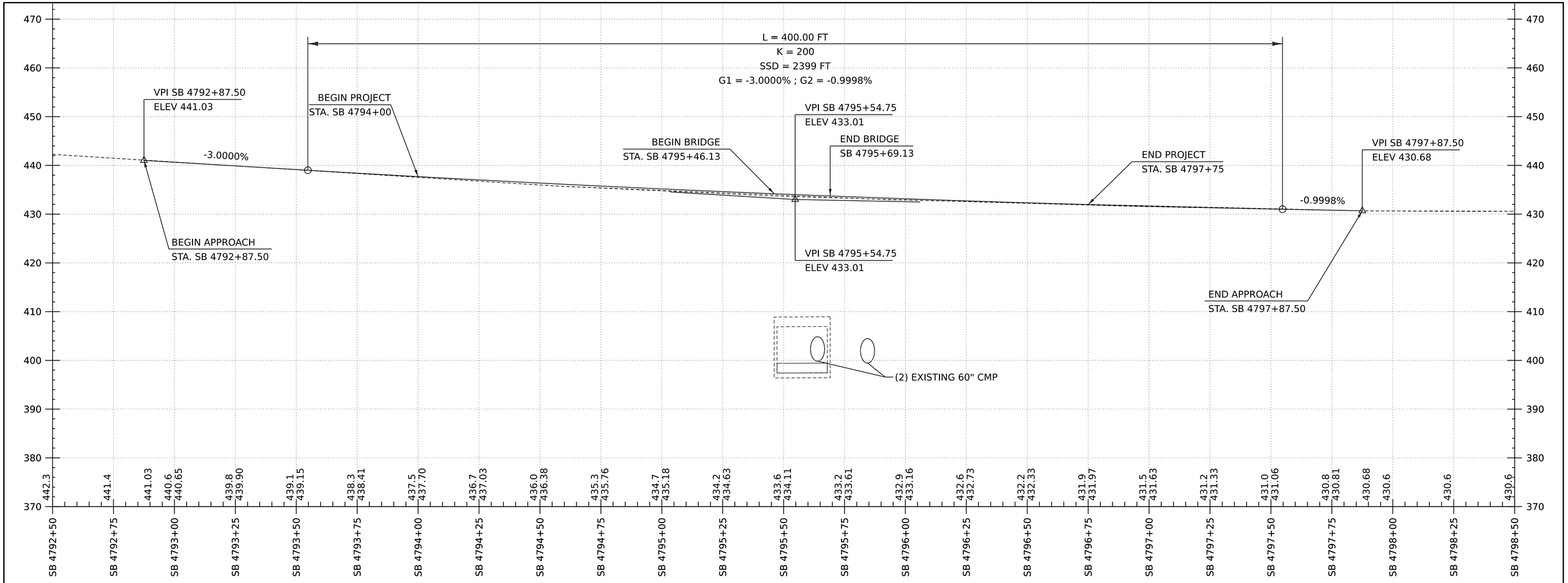


I-91 NORTHBOUND PROPOSED BANKING DIAGRAM

SCALE:1"=20' H

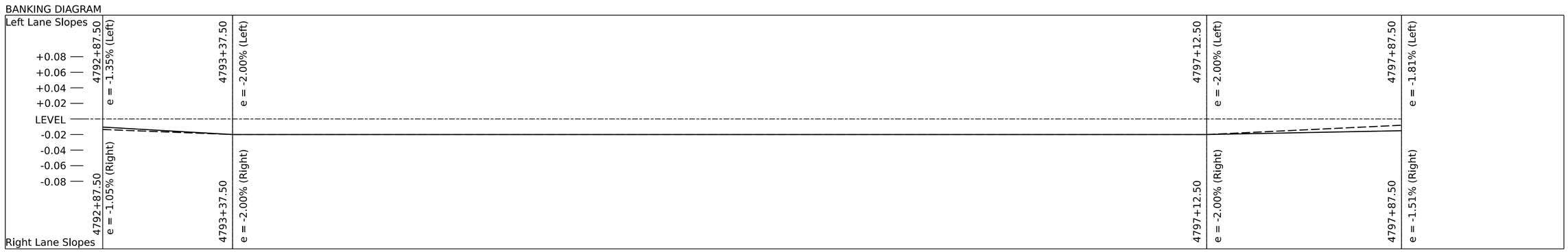
Stantec

PROJECT NAME:	FAIRLEE
PROJECT NUMBER:	IM 091-2(91)
FILE NAME: z21a024_alg_I91_NB.dgn	PLOT DATE: 3-APR-2024
PROJECT LEADER: J. GRIGAS	DRAWN BY: G. BURGMEIER
DESIGNED BY: G. BURGMEIER	CHECKED BY: I. MAYNARD
NB PROFILE SHEET	SHEET 9 OF 100



I-91 SOUTHBOUND PROPOSED PROFILE

SCALE:1"=20' H
1"=10' V

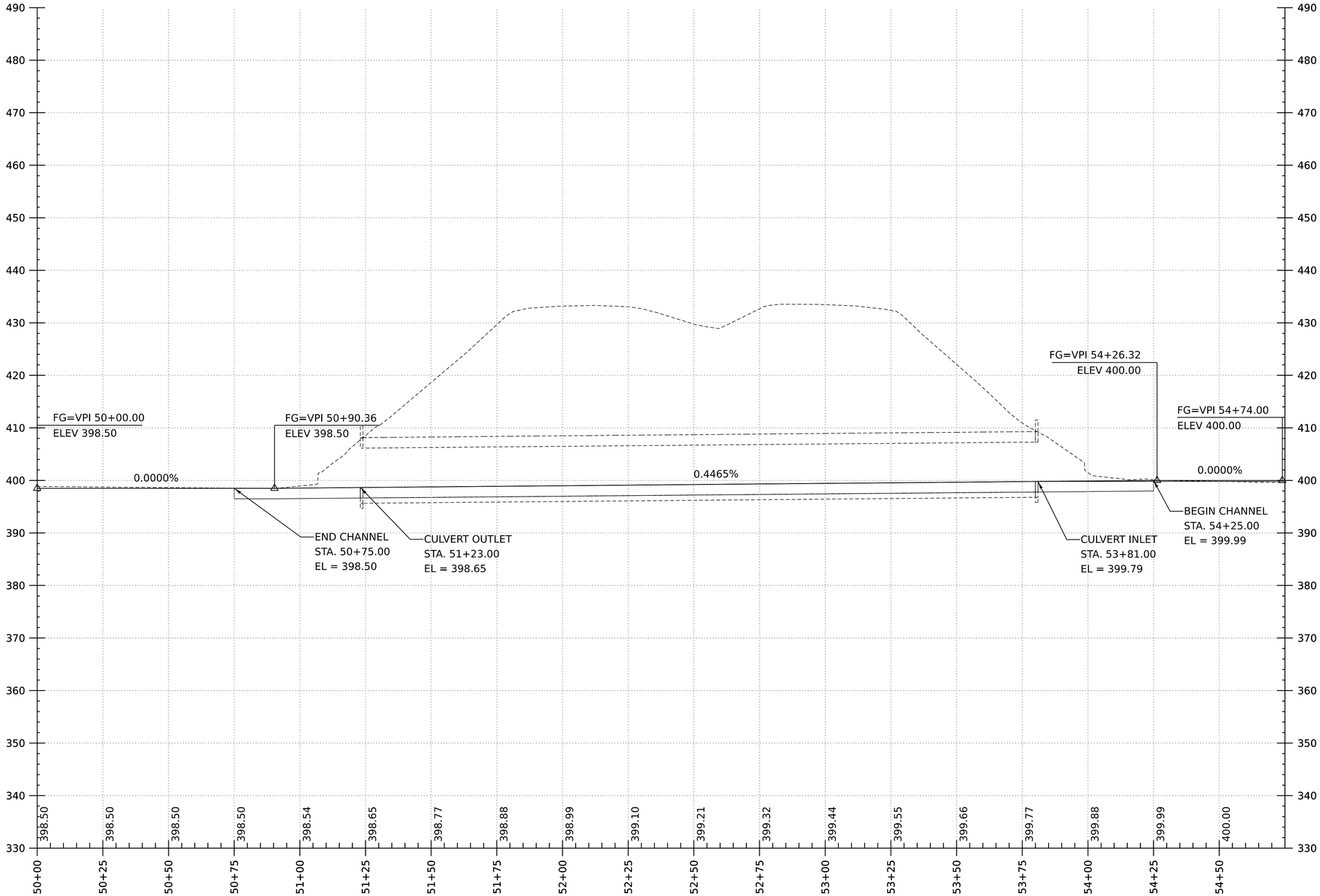


I-91 SOUTHBOUND PROPOSED BANKING DIAGRAM

SCALE:1"=20' H

Stantec

PROJECT NAME:	FAIRLEE
PROJECT NUMBER:	IM 091-2(91)
FILE NAME: z21a024_alg_I91_SB.dgn	PLOT DATE: 3-APR-2024
PROJECT LEADER: J. GRIGAS	DRAWN BY: G. BURGMEIER
DESIGNED BY: G. BURGMEIER	CHECKED BY: I. MAYNARD
SB PROFILE SHEET	SHEET 10 OF 100

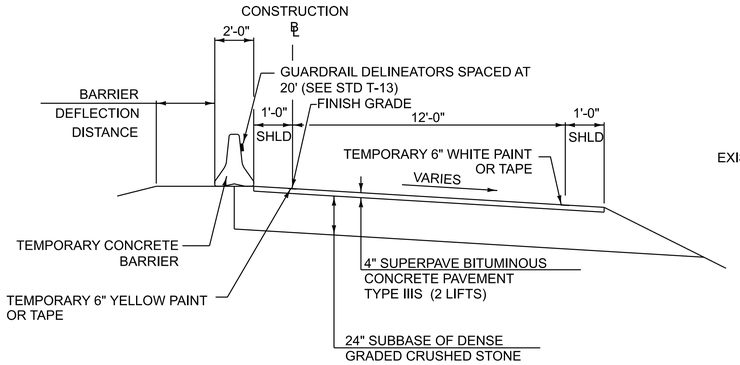


PROPOSED CULVERT PROFILE

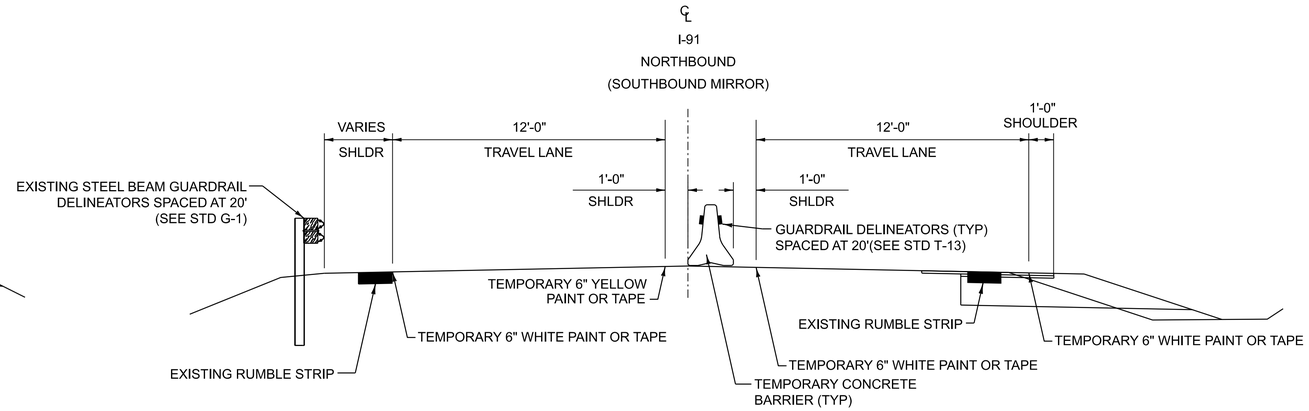
SCALE:1"=20' H
1"=10' V

Stantec

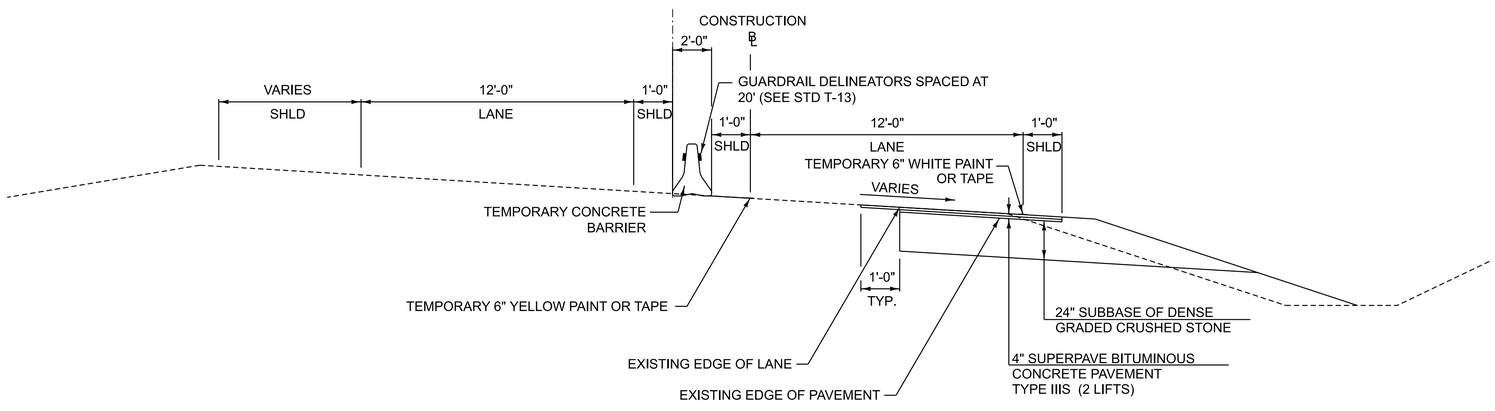
PROJECT NAME:	FAIRLEE
PROJECT NUMBER:	IM 091-2(91)
FILE NAME: z21a024_alg_culv.dgn	PLOT DATE: 4/3/2024
PROJECT LEADER: J. GRIGAS	DRAWN BY: P.ARMATA
DESIGNED BY: K. RICHARDSON	CHECKED BY: J. GRIGAS
CULVERT PROFILE SHEET	SHEET 11 OF 100



MEDIAN CROSSOVER TYPICAL



CROSSOVER TYPICAL



WIDENING TYPICAL

TEMPORARY CROSSOVER TYPICAL SECTIONS

NOT TO SCALE

1. REFLECTORS SHALL BE YELLOW FOR THE LEFT-HAND SIDE AND WHITE FOR THE RIGHT-HAND SIDE OF THE CROSSOVERS.REFLECTORS TO BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS AT LOCATIONS PER VAOT STANDARD T-13.

GENERAL TRAFFIC CONTROL NOTES

1. THE EXISTING SPEED LIMIT ON I-91 IS 65 MPH. THE SPEED LIMIT WILL BE REDUCED TO 55 MPH DURING CROSSOVER UTILIZATION. ANY EXISTING SPEED LIMIT SIGNS WITHIN THE SPEED REDUCTION AREA SHALL BE COMPLETELY COVERED. SIGN COVERING SHALL NOT DAMAGE THE RETRO-REFLECTIVITY OF THE SIGN FACE. THE SIGN COVER SHALL BE A MATERIAL THAT WILL NOT DETERIORATE FOR THE DURATION THAT THE SIGN IS COVERED. ALL OTHER EXISTING SIGNS IN CONFLICT WITH THE TEMPORARY TRAFFIC CONTROL CONDITIONS SHALL BE REMOVED OR COMPLETELY COVERED. A RESUMED SPEED LIMIT SHALL BE POSTED AT THE END OF THE WORK ZONE.

Stantec

PROJECT NAME:	FAIRLEE
PROJECT NUMBER:	IM 091-2(91)
FILE NAME: z21a024typ.dgn	PLOT DATE: 3-APR-2024
PROJECT LEADER: J. GRIGAS	DRAWN BY: G. BURGMEIER
DESIGNED BY: G. BURGMEIER	CHECKED BY: I. MAYNARD
TRAFFIC CONTROL NOTES AND TYPICALS	SHEET 12 OF 100

LEGEND

- PLASTIC DRUM
- DIRECTION OF TRAFFIC
- TRAFFIC DELINEATOR (YELLOW)
- TRAFFIC DELINEATOR (WHITE)
- PORTABLE ARROW BOARD
- PCMS — PORTABLE CHANGEABLE MESSAGE SIGN
- TYPE III BARRACADE WITH ROAD CLOSED SIGN
- TYPE III BARRACADE
- TEMPORARY TRAFFIC BARRIER
- REMOVAL OR MASKING OF EXISTING PAVEMENT MARKINGS
- ENERGY ABSORBTION ATTENUATOR

N

VT STATE PLANE GRID

SB 4765+74

SPEED LIMIT 65 — R2-1

INTERSTATE 91 (SOUTHBOUND)

SB 4764+00 | SB 4765+00 | SB 4766+00 | SB 4767+00 | SB 4768+00 | SB 4769+00 | SB 47

MATCHLINE STA. SB 4775+50

FOR ADDITIONAL SIGNAGE SEE CONSTRUCTION APPROACH AND LANE CLOSURE SIGN PACKAGE (THIS SHEET)

INTERSTATE 91 (NORTHBOUND)

NB 4765+00 | NB 4766+00 | NB 4767+00 | NB 4768+00 | NB 4769+00 | NB 47

-00

TO THETFORD

BEGIN SHOULDER TAPER
STA. NB 4768+91

MATCHLINE STA. NB 4770+00

I91 NORTHBOUND CONSTRUCTION APPROACH AND LANE CLOSURE SIGN PACKAGE

W20-1	W3-5	W20-5	W20-5	W4-2		
ROAD WORK AHEAD	SPEED LIMIT 55	LEFT LANE CLOSED 1/2 MILE	LEFT LANE CLOSED 1500 FT		WORK ZONE	G20-5AP
					SPEED LIMIT 55	R2-1
					FINES DOUBLE	R2-6AP

2140' | 500' | 1500' | 1500' | 500' | 500' | SHOULDER TAPER

NB 4704+70 | NB 4726+10 | NB 4731+10 | NB 4746+10 | NB 4761+10 | NB 4766+10

DIRECTION OF TRAFFIC

SIGNS TO BE GATE POSTED

BEGIN MERGING TAPER
NB 4771+10

NOTES:

1. ALL EXISTING PAVEMENT MARKINGS, IN CONFLICT WITH TEMPORARY PAVEMENT MARKINGS, WILL BE REMOVED OR MASKED.
2. 12' TRAVEL LANES WITH MINIMUM 1' SHOULDERS.

0 20 40
SCALE IN FEET

Stantec

PROJECT NAME: FAIRLEE
PROJECT NUMBER: IM 091-2(91)

FILE NAME: z21a024bdr_tcp_NB.dgn
PROJECT LEADER: J. GRIGAS
DESIGNED BY: G. BURGMEIER
CROSSOVER NB PLAN SHEET 1

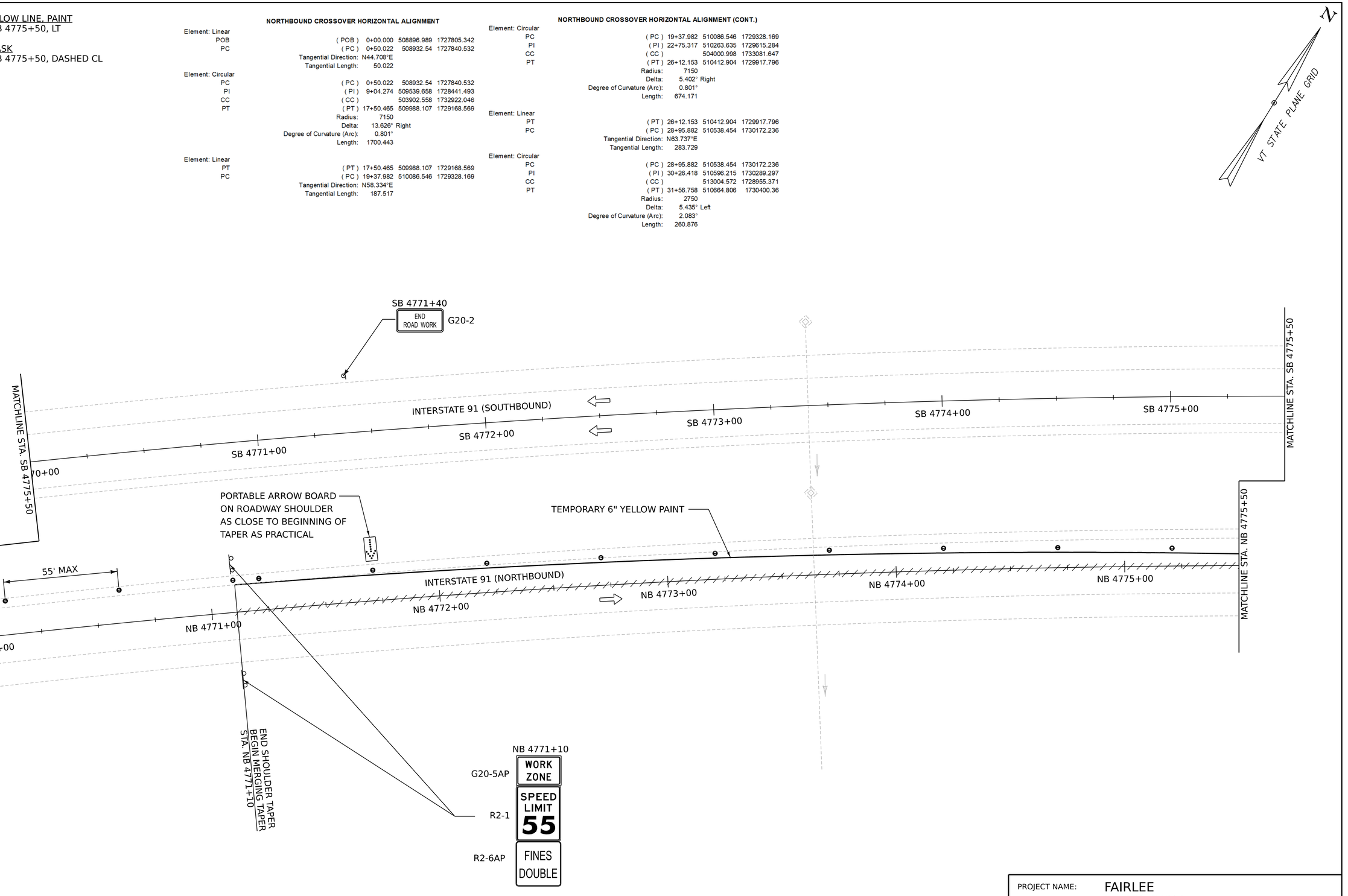
PLOT DATE: 3-APR-2024
DRAWN BY: D. DRAPER
CHECKED BY: I. MAYNARD
SHEET 13 OF 100

TEMPORARY 6 INCH YELLOW LINE, PAINT
STA. NB 4771+10 TO NB 4775+50, LT

PAVEMENT MARKING MASK
STA. NB 4771+10 TO NB 4775+50, DASHED CL

NORTHBOUND CROSSOVER HORIZONTAL ALIGNMENT

Element: Linear				
POB	(POB)	0+00.000	508896.989	1727805.342
PC	(PC)	0+50.022	508932.54	1727840.532
	Tangential Direction:	N44.708°E		
	Tangential Length:	50.022		
Element: Circular				
PC	(PC)	0+50.022	508932.54	1727840.532
PI	(PI)	9+04.274	509539.658	1728441.493
CC	(CC)		503902.558	1732922.046
PT	(PT)	17+50.465	509988.107	1729168.569
	Radius:	7150		
	Delta:	13.626°	Right	
	Degree of Curvature (Arc):	0.801°		
	Length:	1700.443		
Element: Linear				
PT	(PT)	17+50.465	509988.107	1729168.569
PC	(PC)	19+37.982	510086.546	1729328.169
	Tangential Direction:	N58.334°E		
	Tangential Length:	187.517		
Element: Circular				
PC	(PC)	19+37.982	510086.546	1729328.169
PI	(PI)	22+75.317	510263.635	1729615.284
CC	(CC)		504000.998	1733081.647
PT	(PT)	26+12.153	510412.904	1729917.796
	Radius:	7150		
	Delta:	5.402°	Right	
	Degree of Curvature (Arc):	0.801°		
	Length:	674.171		
Element: Linear				
PT	(PT)	26+12.153	510412.904	1729917.796
PC	(PC)	28+95.882	510538.454	1730172.236
	Tangential Direction:	N63.737°E		
	Tangential Length:	283.729		
Element: Circular				
PC	(PC)	28+95.882	510538.454	1730172.236
PI	(PI)	30+26.418	510596.215	1730289.297
CC	(CC)		513004.572	1728955.371
PT	(PT)	31+56.758	510664.806	1730400.36
	Radius:	2750		
	Delta:	5.435°	Left	
	Degree of Curvature (Arc):	2.083°		
	Length:	260.876		



NOTES:

1. ALL EXISTING PAVEMENT MARKINGS, IN CONFLICT WITH TEMPORARY PAVEMENT MARKINGS, WILL BE REMOVED OR MASKED.
2. 12' TRAVEL LANES WITH MINIMUM 1' SHOULDERS.

0 20 40
SCALE IN FEET

Stantec

PROJECT NAME: FAIRLEE
PROJECT NUMBER: IM 091-2(91)

FILE NAME: z21a024bdr_tcp_NB.dgn
PROJECT LEADER: J. GRIGAS
DESIGNED BY: G. BURGMEIER
CROSSOVER NB PLAN SHEET 2

PLOT DATE: 3-APR-2024
DRAWN BY: D. DRAPER
CHECKED BY: I. MAYNARD
SHEET 14 OF 100

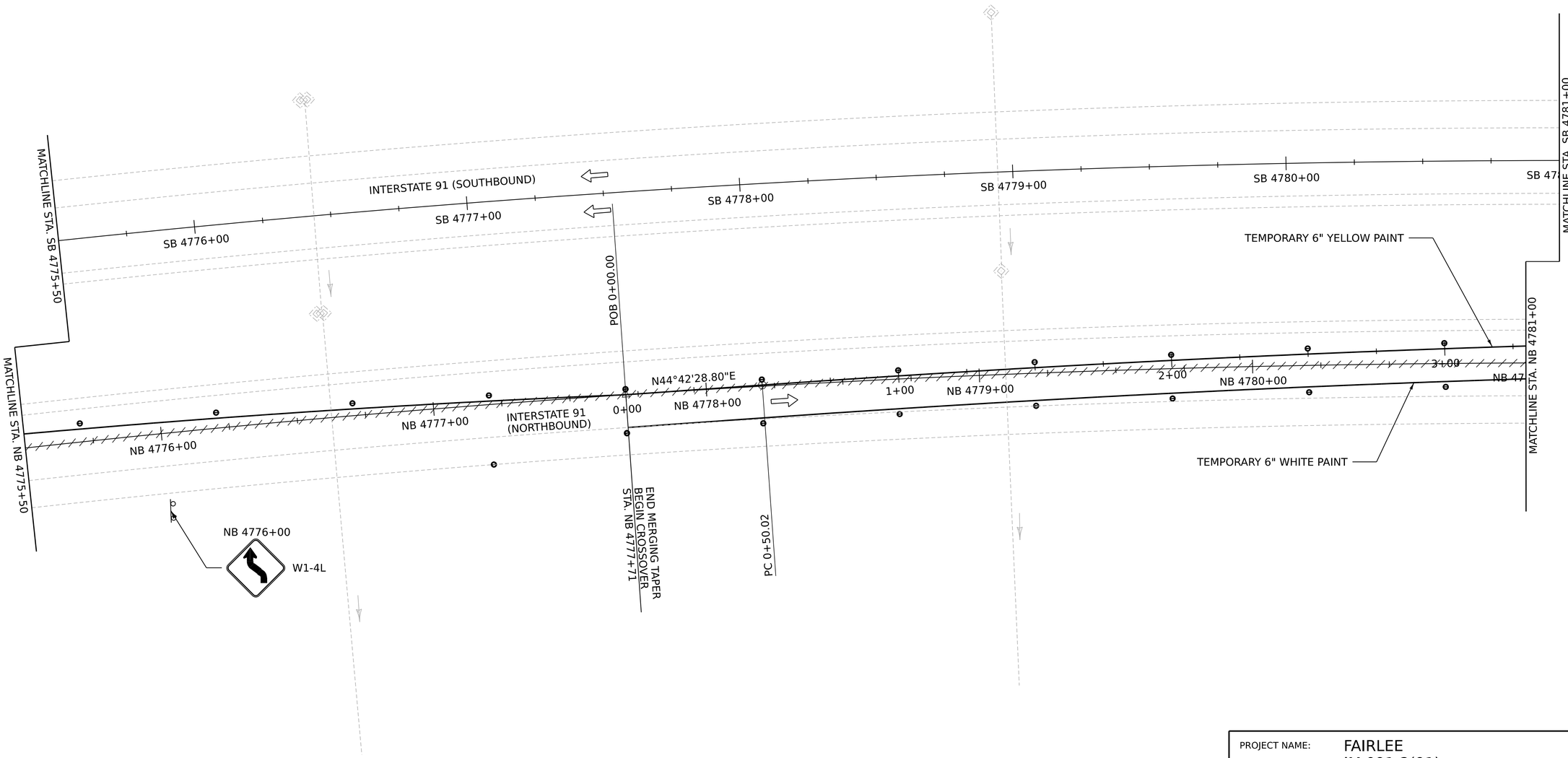
TEMPORARY 6 INCH WHITE LINE, PAINT
STA. NB 4777+71 TO NB 4781+00, RT

TEMPORARY 6 INCH YELLOW LINE, PAINT
STA. NB 4775+50 TO NB 4781+00, LT

PAVEMENT MARKING MASK
STA. NB 4775+50 TO NB 4781+00, DASHED CL

N

VT STATE PLANE GRID



NOTES:

1. ALL EXISTING PAVEMENT MARKINGS, IN CONFLICT WITH TEMPORARY PAVEMENT MARKINGS, WILL BE REMOVED OR MASKED.

2. 12' TRAVEL LANES WITH MINIMUM 1' SHOULDERS.

0 20 40
SCALE IN FEET

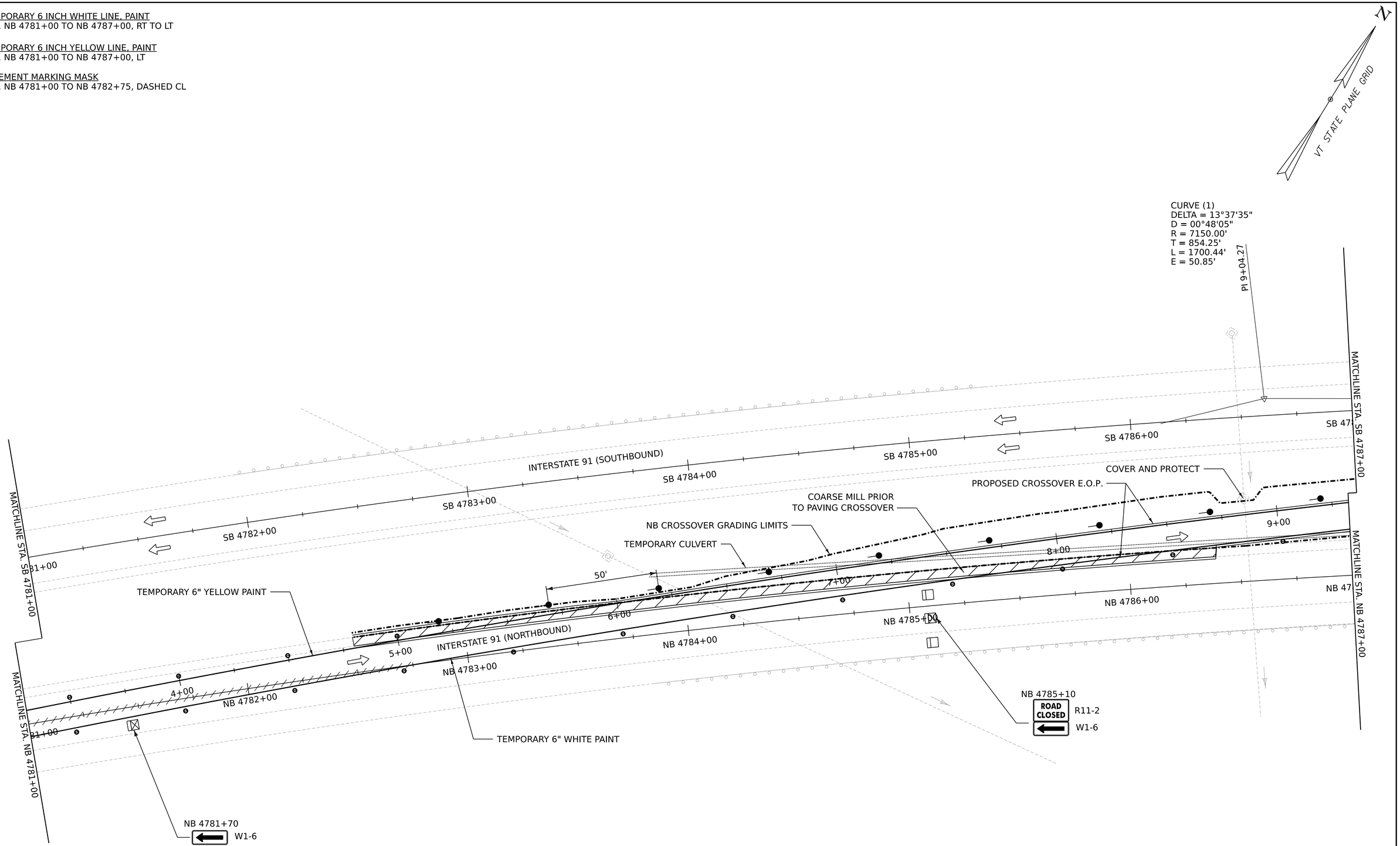
Stantec

PROJECT NAME:	FAIRLEE
PROJECT NUMBER:	IM 091-2(91)
FILE NAME: z21a024bdr_tcp_NB.dgn	PLOT DATE: 3-APR-2024
PROJECT LEADER: J. GRIGAS	DRAWN BY: D. DRAPER
DESIGNED BY: G. BURGMEIER	CHECKED BY: I. MAYNARD
CROSSOVER NB PLAN SHEET 3	SHEET 15 OF 100

TEMPORARY 6 INCH WHITE LINE, PAINT
STA. NB 4781+00 TO NB 4787+00, RT TO LT

TEMPORARY 6 INCH YELLOW LINE, PAINT
STA. NB 4781+00 TO NB 4787+00, LT

PAVEMENT MARKING MASK
STA. NB 4781+00 TO NB 4782+75, DASHED CL



NOTES:

1. ALL EXISTING PAVEMENT MARKINGS, IN CONFLICT WITH TEMPORARY PAVEMENT MARKINGS, WILL BE REMOVED OR MASKED.

2. 12' TRAVEL LANES WITH MINIMUM 1' SHOULDERS.

0 20 40
SCALE IN FEET

Stantec

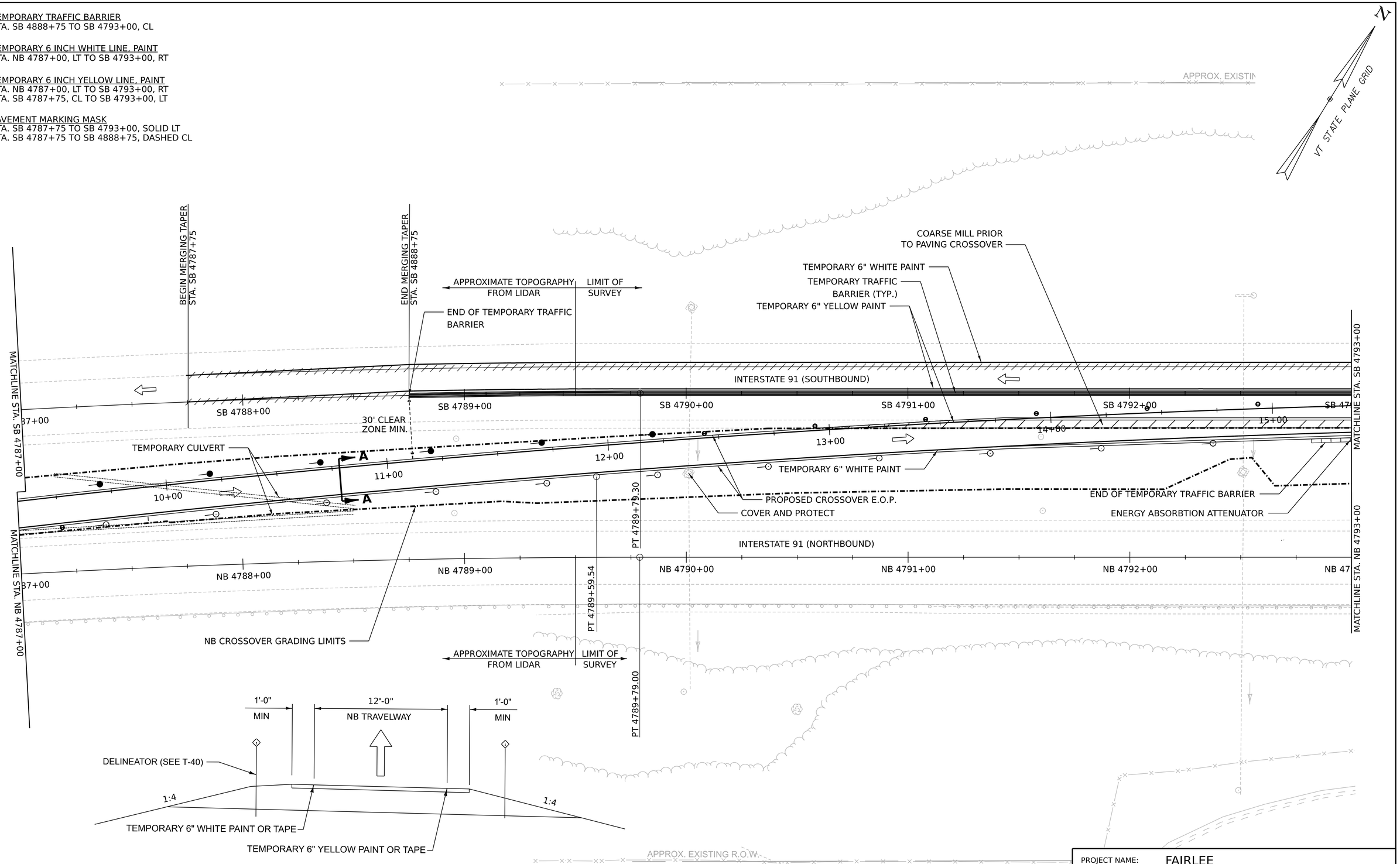
PROJECT NAME:	FAIRLEE
PROJECT NUMBER:	IM 091-2(91)
FILE NAME: z21a024bdr_tcp_NB.dgn	PLOT DATE: 3-APR-2024
PROJECT LEADER: J. GRIGAS	DRAWN BY: D. DRAPER
DESIGNED BY: G. BURGMEIER	CHECKED BY: I. MAYNARD
CROSSOVER NB PLAN SHEET 4	SHEET 16 OF 100

TEMPORARY TRAFFIC BARRIER
STA. SB 4888+75 TO SB 4793+00, CL

TEMPORARY 6 INCH WHITE LINE, PAINT
STA. NB 4787+00, LT TO SB 4793+00, RT

TEMPORARY 6 INCH YELLOW LINE, PAINT
STA. NB 4787+00, LT TO SB 4793+00, RT
STA. SB 4787+75, CL TO SB 4793+00, LT

PAVEMENT MARKING MASK
STA. SB 4787+75 TO SB 4793+00, SOLID LT
STA. SB 4787+75 TO SB 4888+75, DASHED CL



NOTES:

1. ALL EXISTING PAVEMENT MARKINGS, IN CONFLICT WITH TEMPORARY PAVEMENT MARKINGS, WILL BE REMOVED OR MASKED.
2. 12' TRAVEL LANES WITH MINIMUM 1' SHOULDERS.

NB CROSSOVER SECTION A-A
NOT TO SCALE

0 20 40
SCALE IN FEET

Stantec

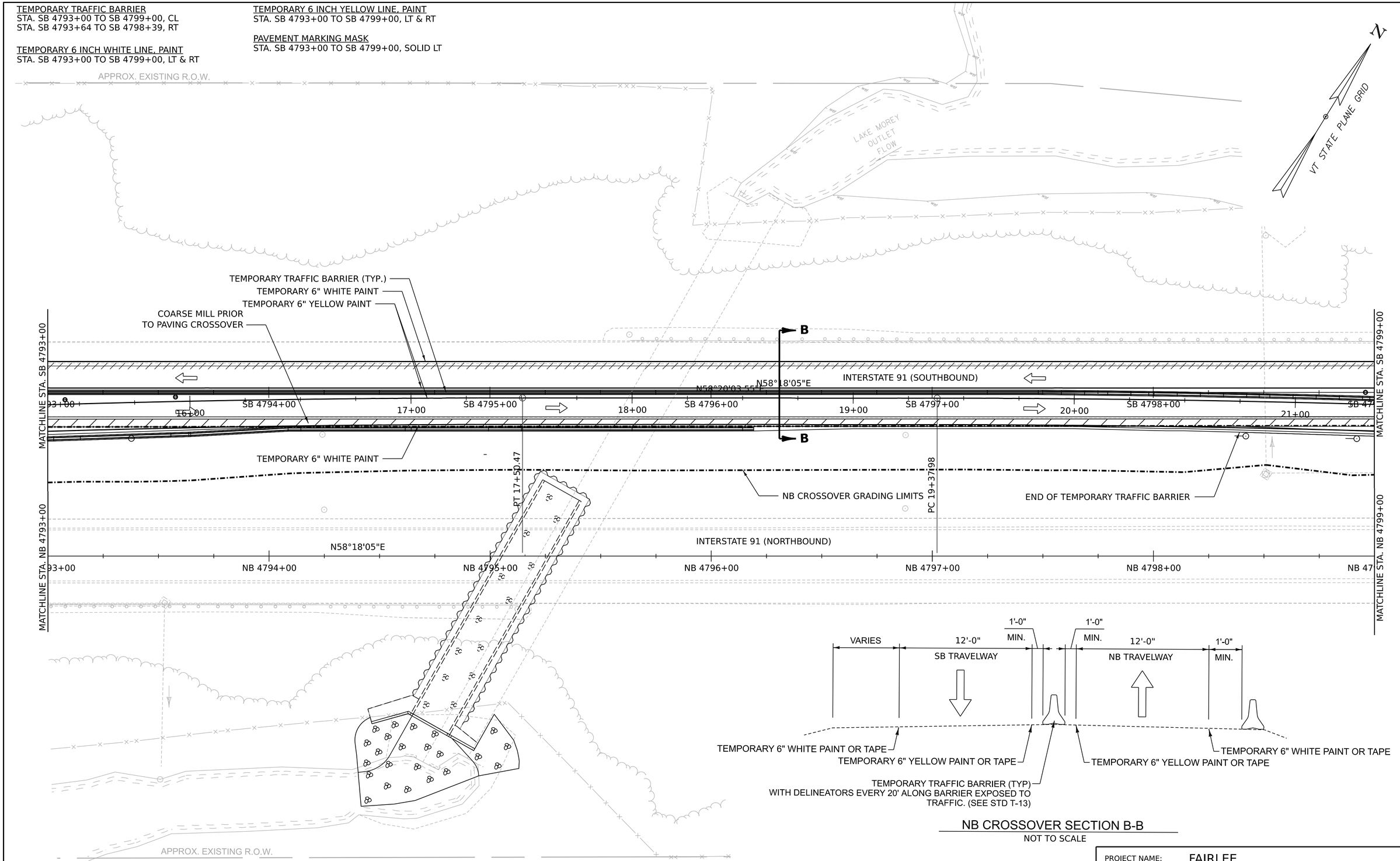
PROJECT NAME:	FAIRLEE
PROJECT NUMBER:	IM 091-2(91)
FILE NAME:	z21a024bdr_tcp_NB.dgn
PROJECT LEADER:	J. GRIGAS
DESIGNED BY:	G. BURGMEIER
CROSSOVER NB PLAN SHEET 5	
PLOT DATE:	3-APR-2024
DRAWN BY:	D. DRAPER
CHECKED BY:	I. MAYNARD
SHEET 17 OF 100	

TEMPORARY TRAFFIC BARRIER
STA. SB 4793+00 TO SB 4799+00, CL
STA. SB 4793+64 TO SB 4798+39, RT

TEMPORARY 6 INCH WHITE LINE, PAINT
STA. SB 4793+00 TO SB 4799+00, LT & RT

TEMPORARY 6 INCH YELLOW LINE, PAINT
STA. SB 4793+00 TO SB 4799+00, LT & RT

PAVEMENT MARKING MASK
STA. SB 4793+00 TO SB 4799+00, SOLID LT



NB CROSSOVER SECTION B-B
NOT TO SCALE

NOTES:
1. ALL EXISTING PAVEMENT MARKINGS, IN CONFLICT WITH TEMPORARY PAVEMENT MARKINGS, WILL BE REMOVED OR MASKED.
2. 12' TRAVEL LANES WITH MINIMUM 1' SHOULDERS.

0 20 40
SCALE IN FEET

Stantec

PROJECT NAME:	FAIRLEE
PROJECT NUMBER:	IM 091-2(91)
FILE NAME: z21a024bdr_tcp_NB.dgn	PLOT DATE: 3-APR-2024
PROJECT LEADER: J. GRIGAS	DRAWN BY: D. DRAPER
DESIGNED BY: G. BURGMEIER	CHECKED BY: I. MAYNARD
CROSSOVER NB PLAN SHEET 6	SHEET 18 OF 100

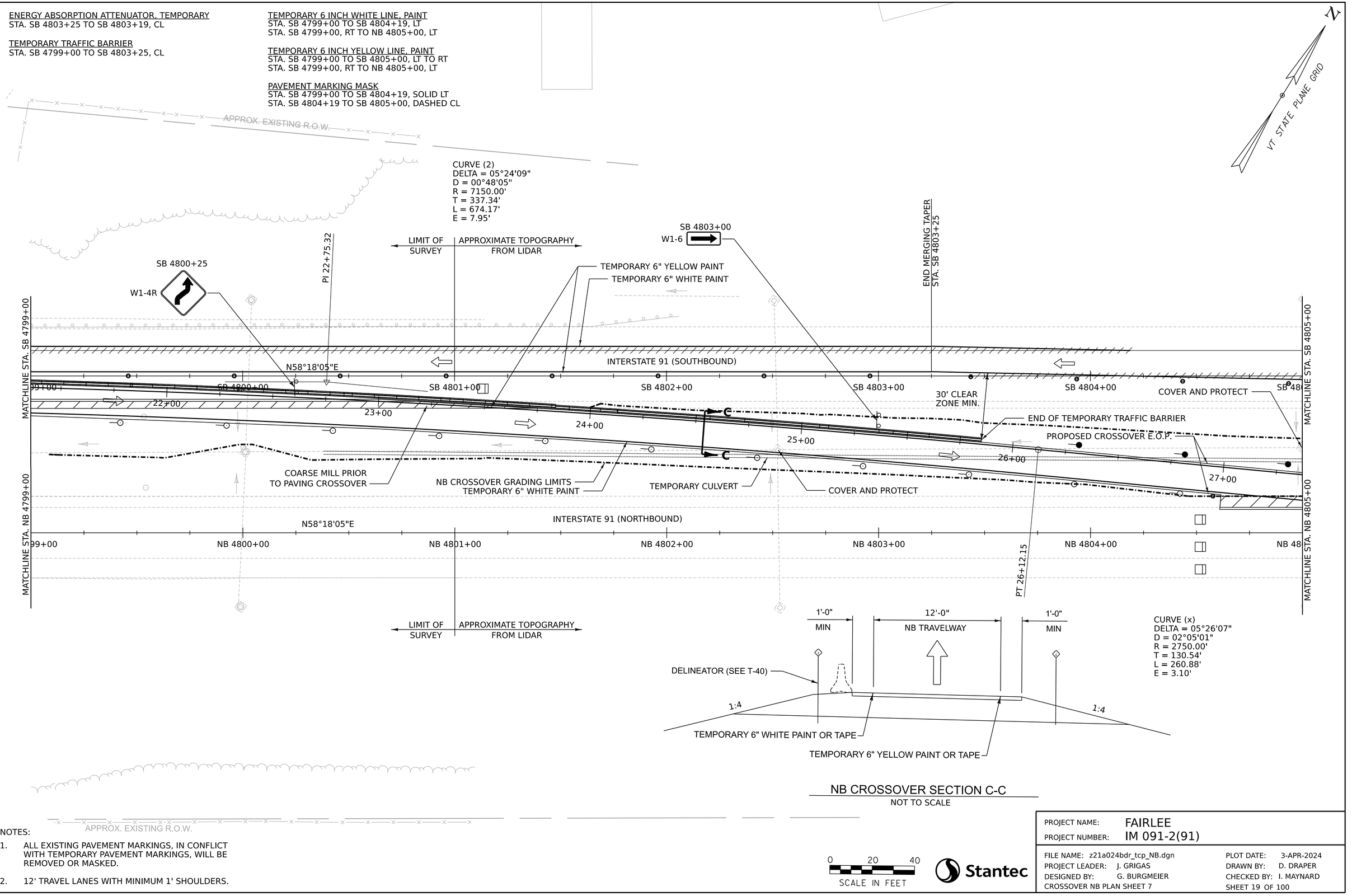
ENERGY ABSORPTION ATTENUATOR, TEMPORARY
STA. SB 4803+25 TO SB 4803+19, CL

TEMPORARY TRAFFIC BARRIER
STA. SB 4799+00 TO SB 4803+25, CL

TEMPORARY 6 INCH WHITE LINE, PAINT
STA. SB 4799+00 TO SB 4804+19, LT
STA. SB 4799+00, RT TO NB 4805+00, LT

TEMPORARY 6 INCH YELLOW LINE, PAINT
STA. SB 4799+00 TO SB 4805+00, LT TO RT
STA. SB 4799+00, RT TO NB 4805+00, LT

PAVEMENT MARKING MASK
STA. SB 4799+00 TO SB 4804+19, SOLID LT
STA. SB 4804+19 TO SB 4805+00, DASHED CL



CURVE (x)
DELTA = 05°26'07"
D = 02°05'01"
R = 2750.00'
T = 130.54'
L = 260.88'
E = 3.10'

NB CROSSOVER SECTION C-C
NOT TO SCALE

NOTES:

1. ALL EXISTING PAVEMENT MARKINGS, IN CONFLICT WITH TEMPORARY PAVEMENT MARKINGS, WILL BE REMOVED OR MASKED.
2. 12' TRAVEL LANES WITH MINIMUM 1' SHOULDERS.

0 20 40
SCALE IN FEET

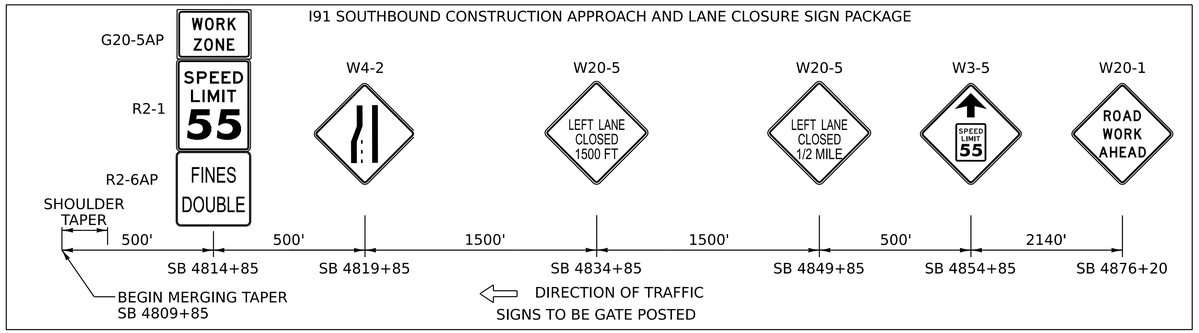
Stantec

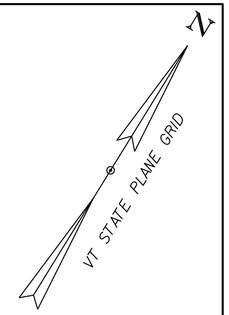
PROJECT NAME:	FAIRLEE
PROJECT NUMBER:	IM 091-2(91)
FILE NAME:	z21a024bdr_tcp_NB.dgn
PROJECT LEADER:	J. GRIGAS
DESIGNED BY:	G. BURGMEIER
CROSSOVER NB PLAN SHEET 7	
PLOT DATE:	3-APR-2024
DRAWN BY:	D. DRAPER
CHECKED BY:	I. MAYNARD
SHEET 19 OF 100	

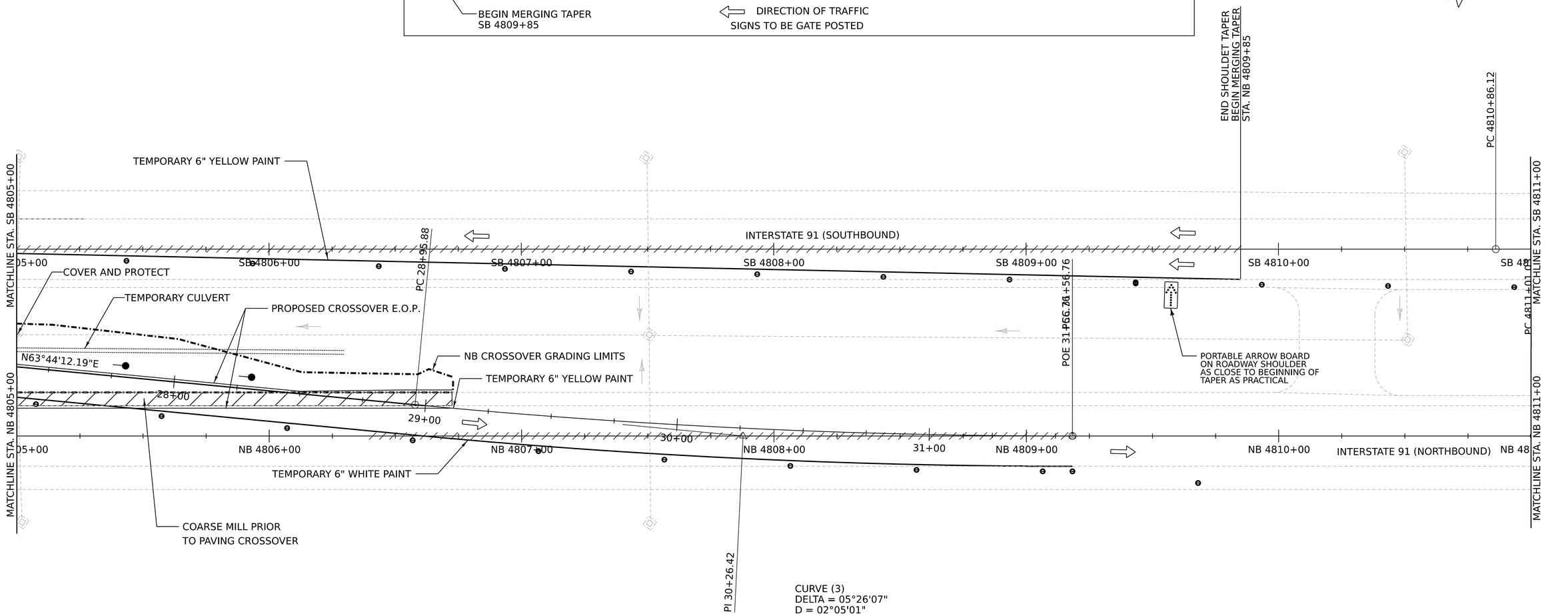
TEMPORARY 6 INCH WHITE LINE, PAINT
STA. NB 4805+00 TO NB 4809+18, LT TO RT

TEMPORARY 6 INCH YELLOW LINE, PAINT
STA. NB 4805+00 TO NB 4810+00, LT

PAVEMENT MARKING MASK
STA. NB 4806+40 TO NB 4809+18, DASHED CL







CURVE (3)
DELTA = 05°26'07"
D = 02°05'01"
R = 2750.00'
T = 130.54'
L = 260.88'
E = 3.10'

NOTES:

1. ALL EXISTING PAVEMENT MARKINGS, IN CONFLICT WITH TEMPORARY PAVEMENT MARKINGS, WILL BE REMOVED OR MASKED.

2. 12' TRAVEL LANES WITH MINIMUM 1' SHOULDERS.

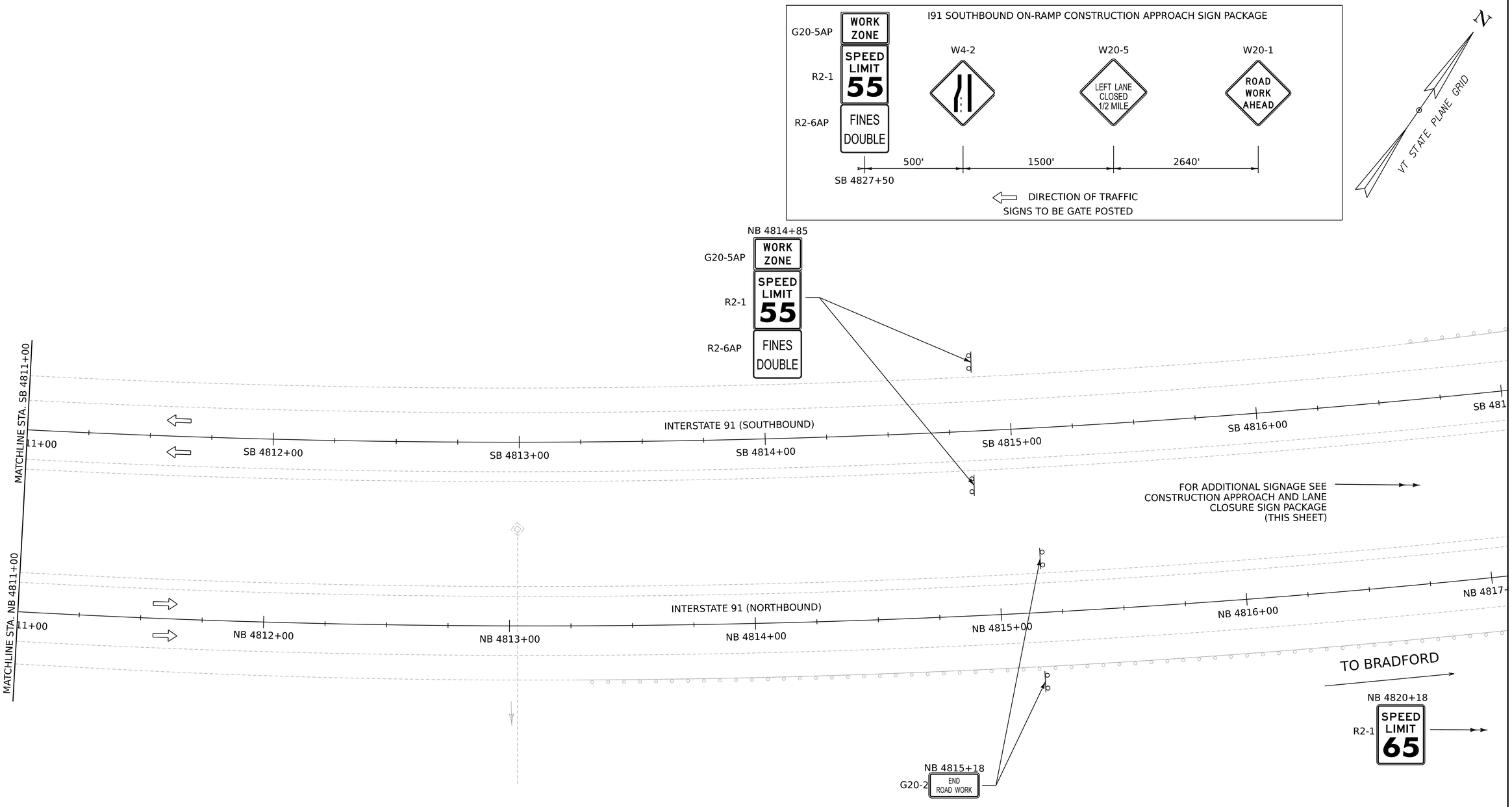
0 20 40
SCALE IN FEET

Stantec

PROJECT NAME: FAIRLEE
PROJECT NUMBER: IM 091-2(91)

FILE NAME: z21a024bdr_tcp_NB.dgn
PROJECT LEADER: J. GRIGAS
DESIGNED BY: G. BURGMEIER
CROSSOVER NB PLAN SHEET 8

PLOT DATE: 3-APR-2024
DRAWN BY: D. DRAPER
CHECKED BY: I. MAYNARD
SHEET 20 OF 100



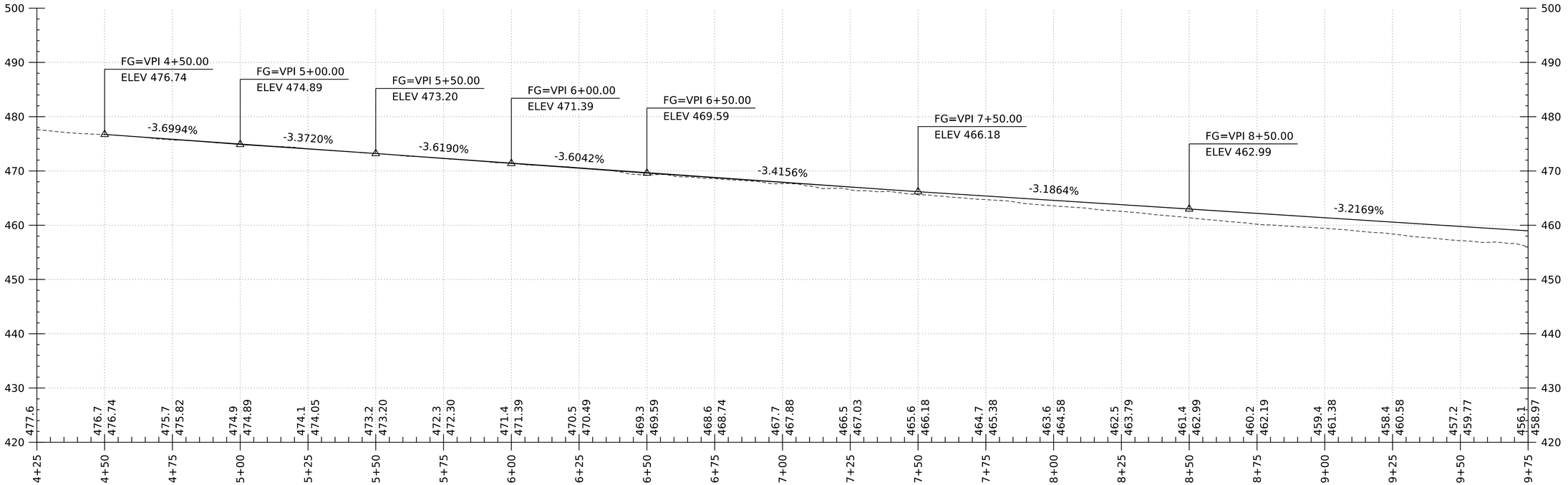
NOTES:

1. ALL EXISTING PAVEMENT MARKINGS, IN CONFLICT WITH TEMPORARY PAVEMENT MARKINGS, WILL BE REMOVED OR MASKED.
2. 12' TRAVEL LANES WITH MINIMUM 1' SHOULDERS.

0 20 40
SCALE IN FEET

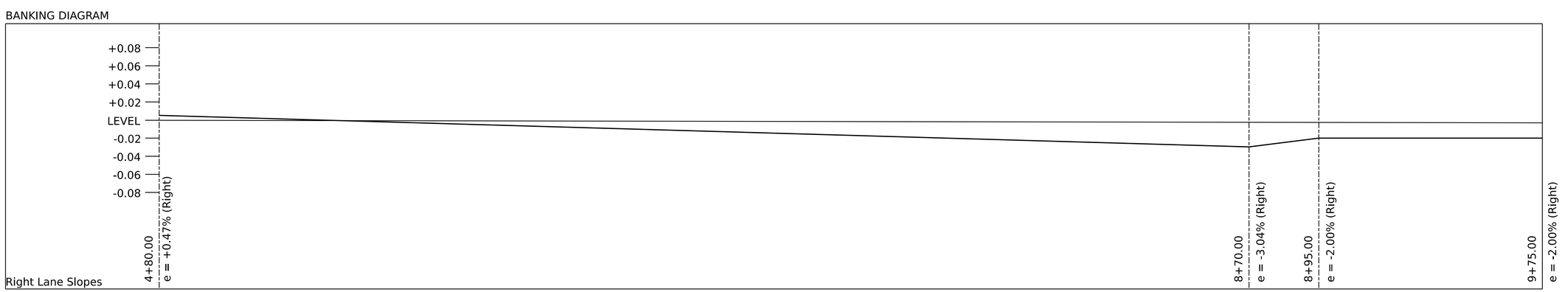
Stantec

PROJECT NAME:	FAIRLEE
PROJECT NUMBER:	IM 091-2(91)
FILE NAME: z21a024bdr_tcp_NB.dgn	PLOT DATE: 3-APR-2024
PROJECT LEADER: J. GRIGAS	DRAWN BY: D. DRAPER
DESIGNED BY: G. BURGMEIER	CHECKED BY: I. MAYNARD
CROSSOVER NB PLAN SHEET 9	SHEET 21 OF 100



I-91 NORTHBOUND CROSSOVER PROFILE

HORZONTAL SCALE: 1" = 40' VERTICAL SCALE 1" = 20'



I-91 NORTHBOUND CROSSOVER PROPOSED BANKING DIAGRAM

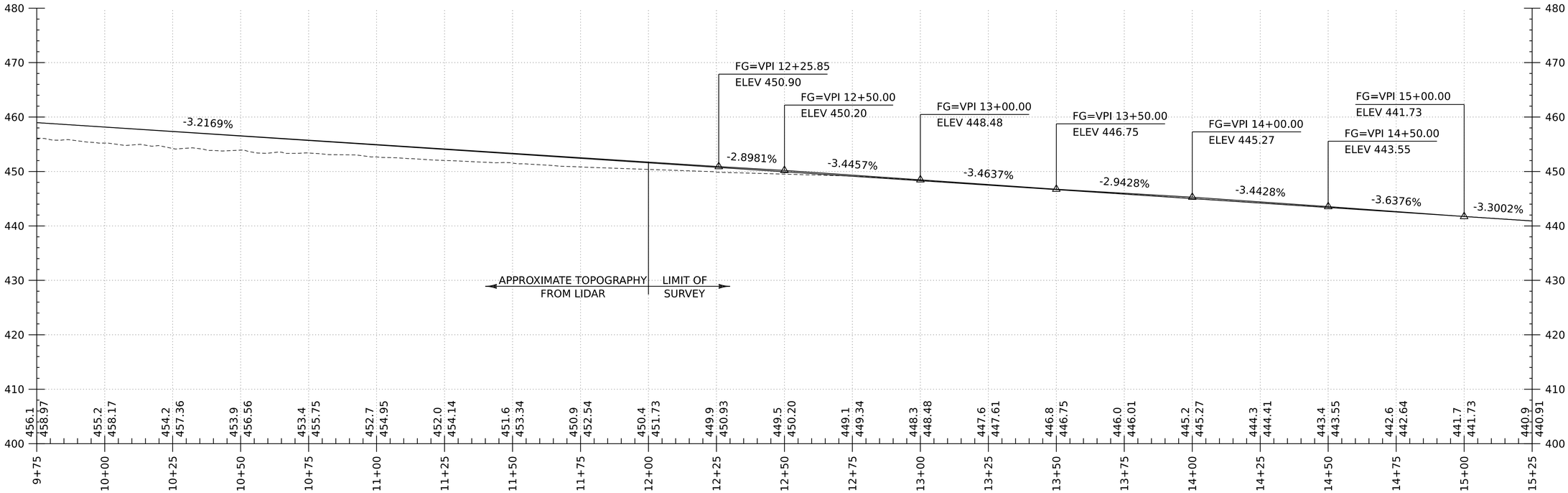
HORZONTAL SCALE: 1" = 40' VERTICAL SCALE 1" = 20'

GRADES SHOWN TO THE NEAREST TENTH ARE EXISTING GROUND

GRADES SHOWN TO THE NEAREST JUNDRETH ARE FINISHED GRADE

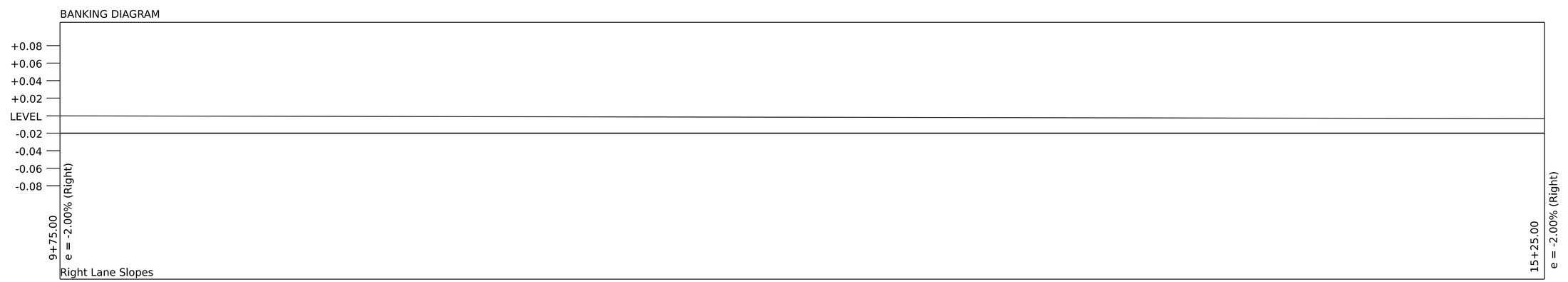
Stantec

PROJECT NAME:	FAIRLEE
PROJECT NUMBER:	IM 091-2(91)
FILE NAME: z21a024_alg_I91_NB_crossover.dgn	PLOT DATE: 3-APR-2024
PROJECT LEADER: J. GRIGAS	DRAWN BY: G. BURGMEIER
DESIGNED BY: G. BURGMEIER	CHECKED BY: I. MAYNARD
I91 NB CROSSOVER PROFILE SHEET 1	SHEET 22 OF 100



I-91 NORTHBOUND CROSSOVER PROFILE

HORZONTAL SCALE: 1" = 40' VERTICAL SCALE 1" = 20'



I-91 NORTHBOUND CROSSOVER PROPOSED BANKING DIAGRAM

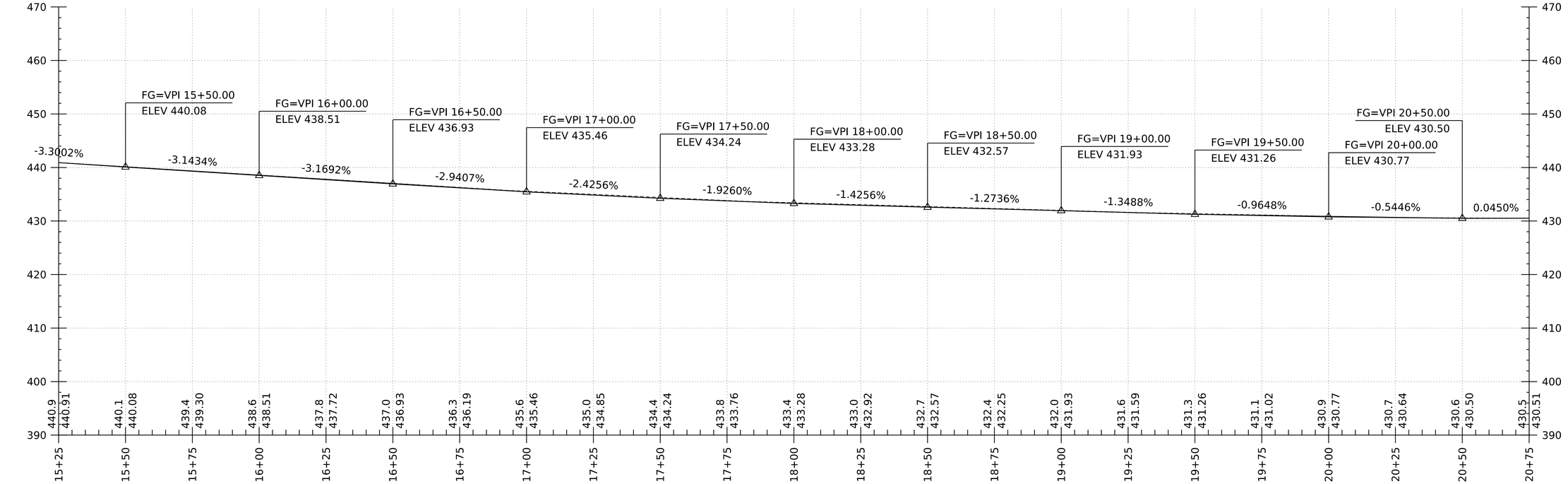
HORZONTAL SCALE: 1" = 40' VERTICAL SCALE 1" = 20'

GRADES SHOWN TO THE NEAREST TENTH ARE EXISTING GROUND

GRADES SHOWN TO THE NEAREST JUNDRETH ARE FINISHED GRADE

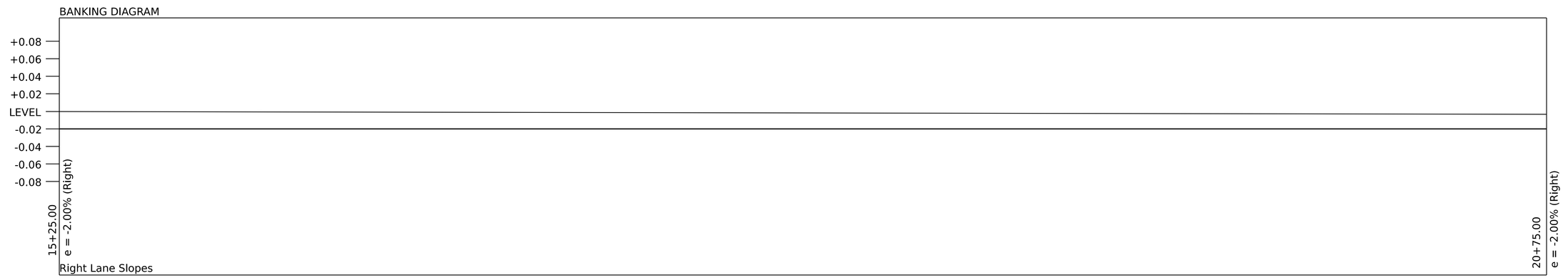
Stantec

PROJECT NAME:	FAIRLEE
PROJECT NUMBER:	IM 091-2(91)
FILE NAME: z21a024_alg_I91_NB_crossover.dgn	PLOT DATE: 3-APR-2024
PROJECT LEADER: J. GRIGS	DRAWN BY: G. BURGMEIER
DESIGNED BY: G. BURGMEIER	CHECKED BY: I. MAYNARD
I91 NB CROSSOVER PROFILE SHEET 2	SHEET 23 OF 100



I-91 NORTHBOUND CROSSOVER PROFILE

HORZONTAL SCALE: 1" = 40' VERTICAL SCALE 1" = 20'



I-91 NORTHBOUND CROSSOVER PROPOSED BANKING DIAGRAM

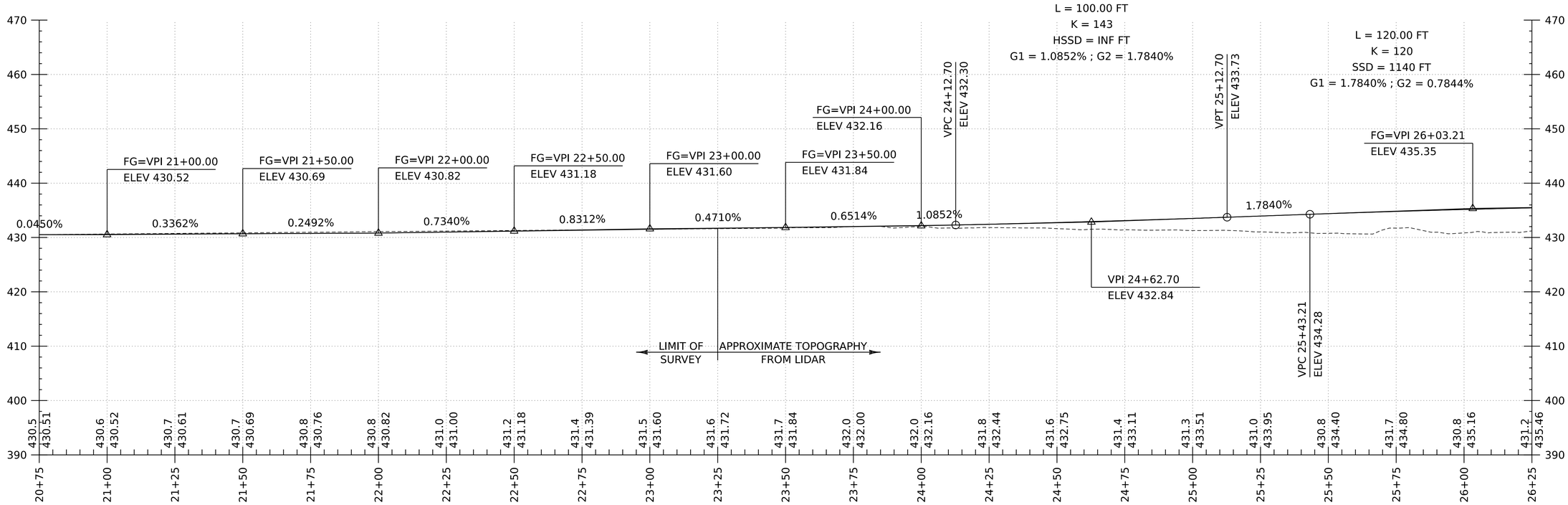
HORZONTAL SCALE: 1" = 40' VERTICAL SCALE 1" = 20'

GRADES SHOWN TO THE NEAREST TENTH ARE EXISTING GROUND

GRADES SHOWN TO THE NEAREST JUNDRETH ARE FINISHED GRADE

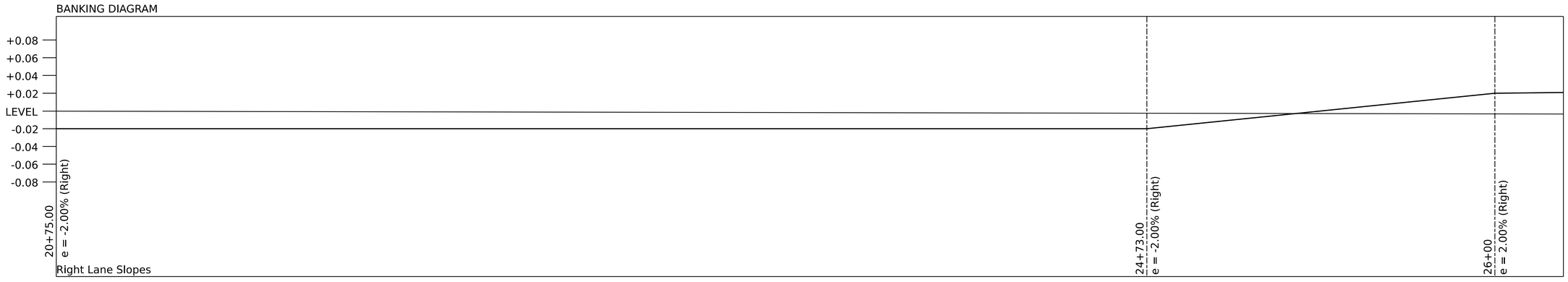
Stantec

PROJECT NAME:	FAIRLEE
PROJECT NUMBER:	IM 091-2(91)
FILE NAME: z21a024_alg_I91_NB_crossover.dgn	PLOT DATE: 3-APR-2024
PROJECT LEADER: J. GRIGAS	DRAWN BY: G. BURGMEIER
DESIGNED BY: G. BURGMEIER	CHECKED BY: I. MAYNARD
I91 NB CROSSOVER PROFILE SHEET 3	SHEET 24 OF 100



I-91 NORTHBOUND CROSSOVER PROFILE

HORZONTAL SCALE: 1" = 40' VERTICAL SCALE 1" = 20'



I-91 NORTHBOUND CROSSOVER PROPOSED BANKING DIAGRAM

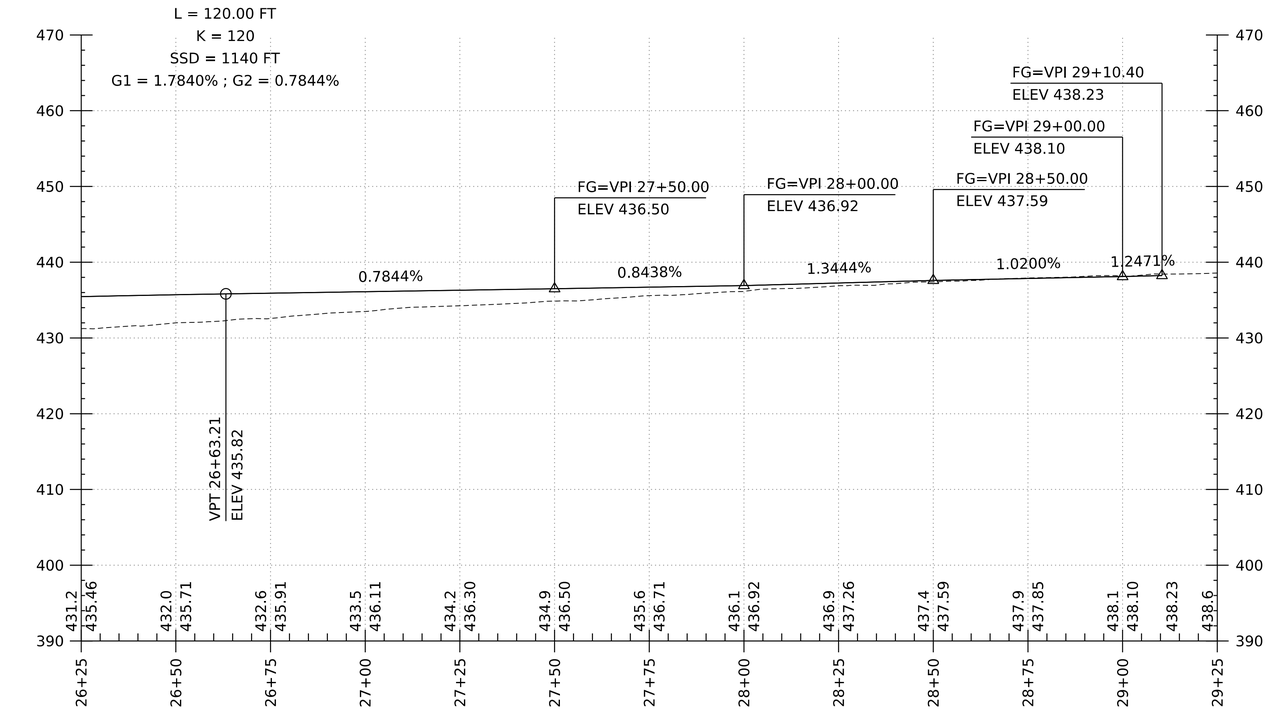
HORZONTAL SCALE: 1" = 40' VERTICAL SCALE 1" = 20'

GRADES SHOWN TO THE NEAREST TENTH ARE EXISTING GROUND

GRADES SHOWN TO THE NEAREST JUNDRETH ARE FINISHED GRADE

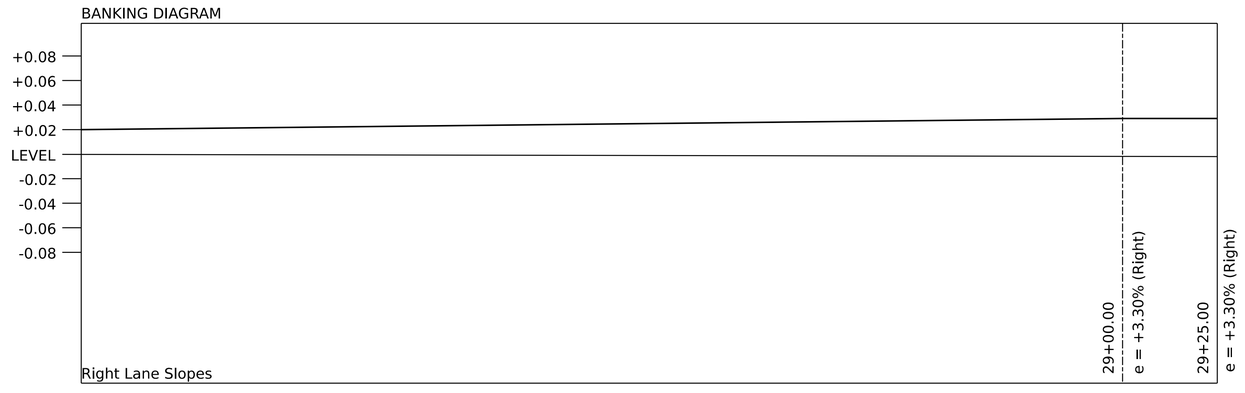
Stantec

PROJECT NAME:	FAIRLEE
PROJECT NUMBER:	IM 091-2(91)
FILE NAME: z21a024_alg_I91_NB_crossover.dgn	PLOT DATE: 3-APR-2024
PROJECT LEADER: J. GRIGAS	DRAWN BY: G. BURGMEIER
DESIGNED BY: G. BURGMEIER	CHECKED BY: I. MAYNARD
I91 NB CROSSOVER PROFILE SHEET 4	SHEET 25 OF 100



I-91 NORTHBOUND CROSSOVER PROFILE

HORZONTAL SCALE: 1" = 40' VERTICAL SCALE 1" = 20'



I-91 NORTHBOUND CROSSOVER PROPOSED BANKING DIAGRAM

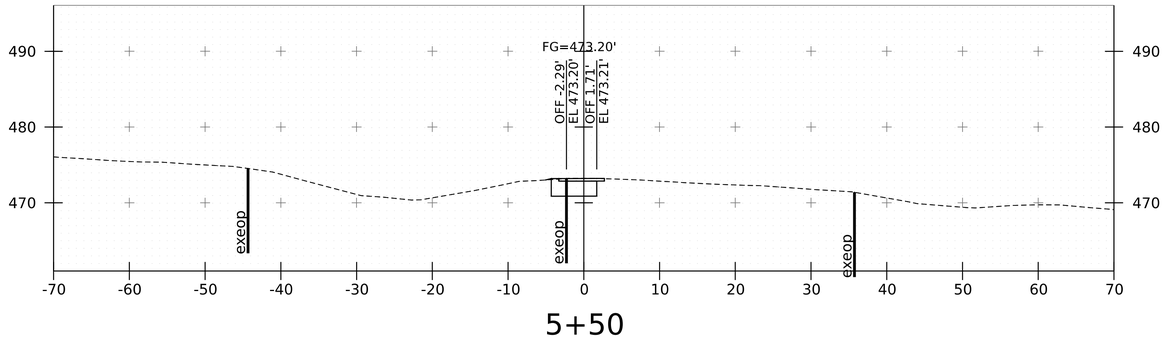
HORZONTAL SCALE: 1" = 40' VERTICAL SCALE 1" = 20'

GRADES SHOWN TO THE NEAREST TENTH ARE EXISTING GROUND

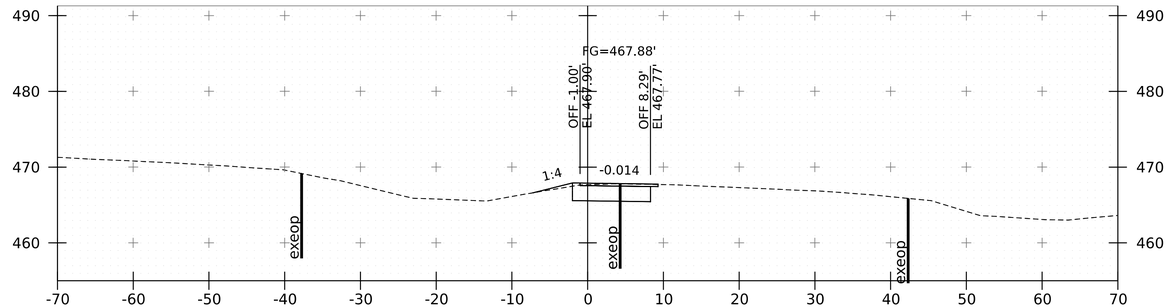
GRADES SHOWN TO THE NEAREST JUNDRETH ARE FINISHED GRADE

Stantec

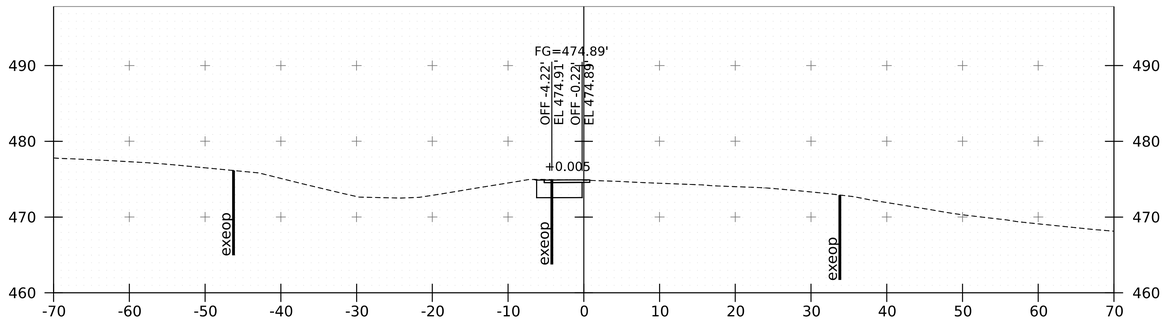
PROJECT NAME:	FAIRLEE
PROJECT NUMBER:	IM 091-2(91)
FILE NAME: z21a024_alg_I91_NB_crossover.dgn	PLOT DATE: 3-APR-2024
PROJECT LEADER: J. GRIGAS	DRAWN BY: G. BURGMEIER
DESIGNED BY: G. BURGMEIER	CHECKED BY: I. MAYNARD
I91 NB CROSSOVER PROFILE SHEET 5	SHEET 26 OF 100



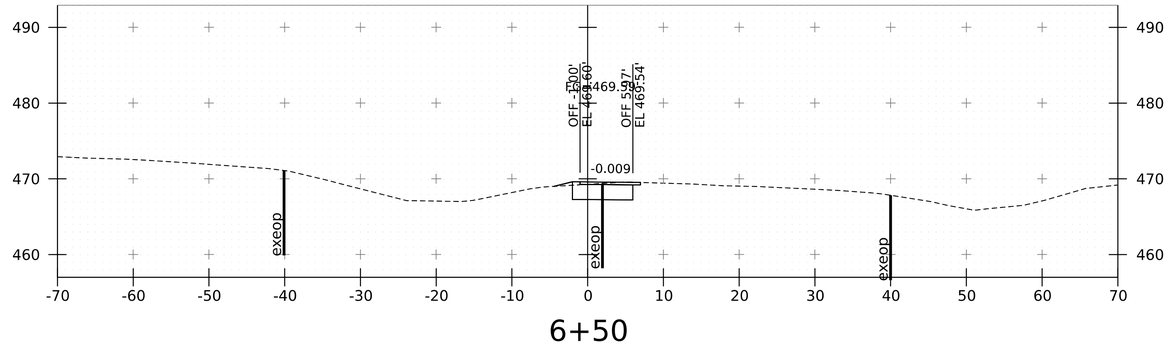
5+50



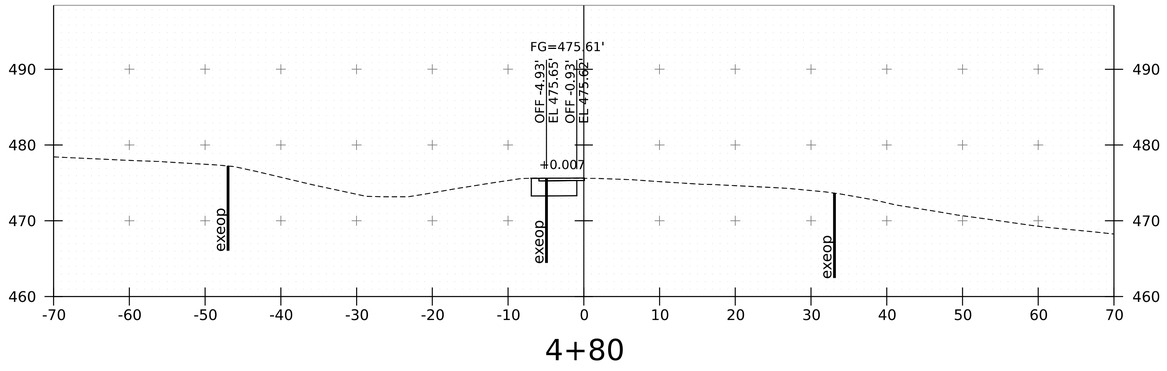
7+00



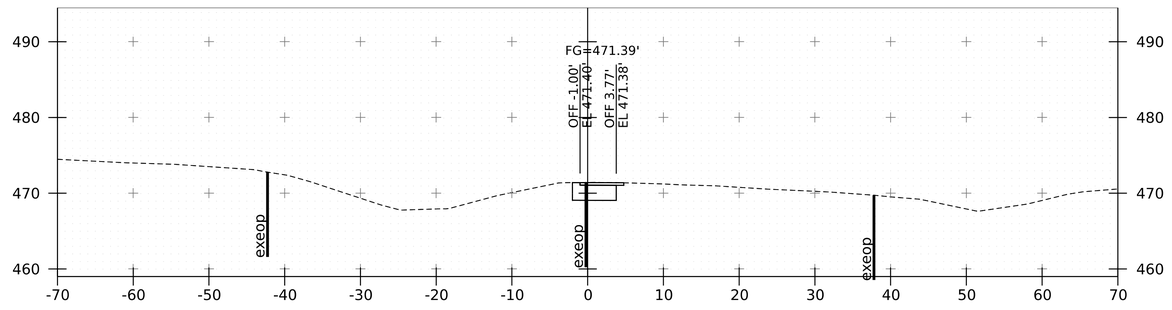
5+00



6+50



4+80



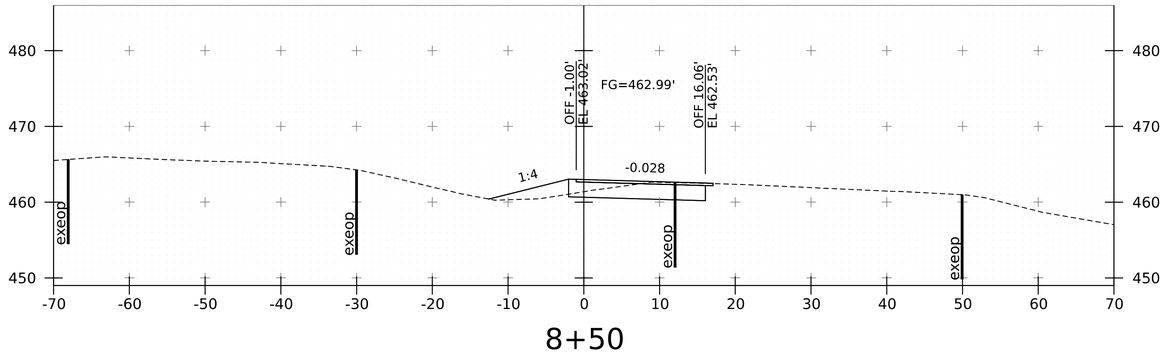
6+00

NOTE: LIDAR USED TO DEVELOP CROSSOVERS FROM STA. 4+80 - STA. 12+00

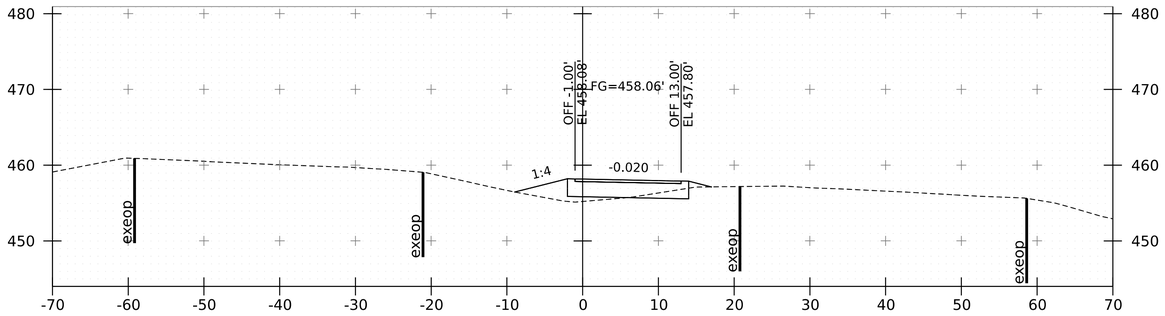
Stantec

PROJECT NAME:	FAIRLEE
PROJECT NUMBER:	IM 091-2(91)

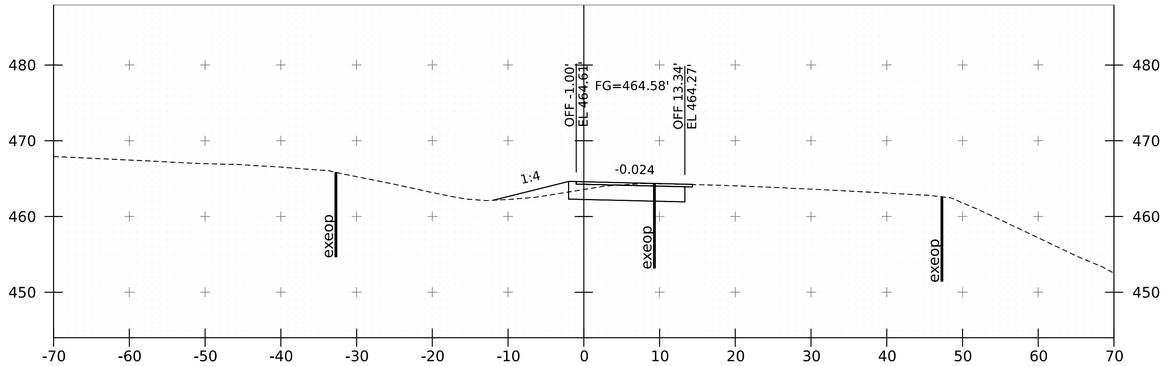
FILE NAME:	z21a024_xs_I91_NB_crossover.dgn	PLOT DATE:	3-APR-2024
PROJECT LEADER:	J. GRIGAS	DRAWN BY:	G. BURGMEIER
DESIGNED BY:	G. BURGMEIER	CHECKED BY:	I. MAYNARD
I91 NB CROSSOVER XS SHEET 1		SHEET	27 OF 100



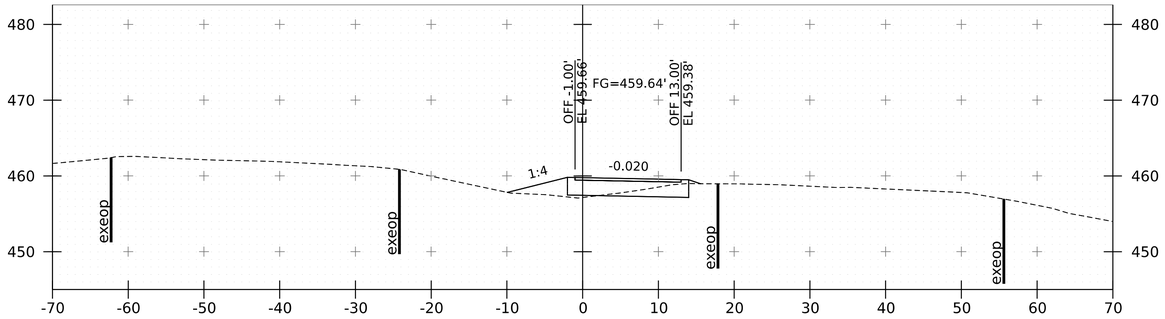
8+50



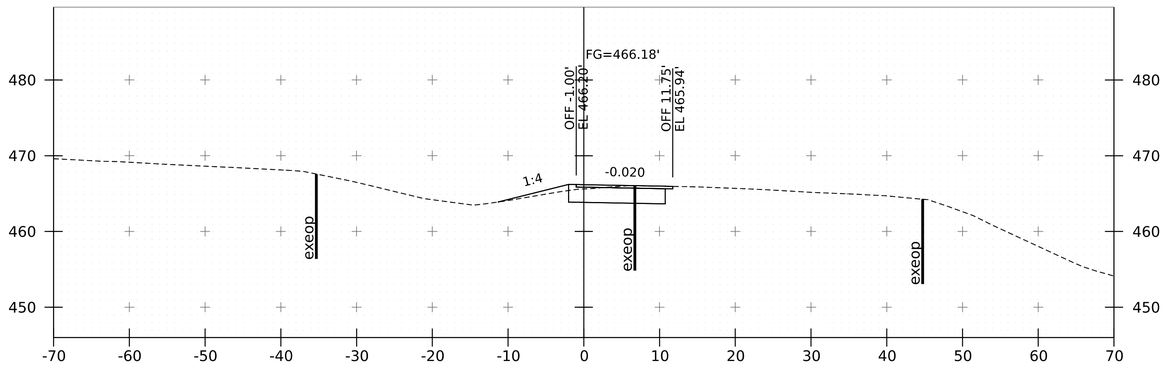
10+00



8+00



9+50



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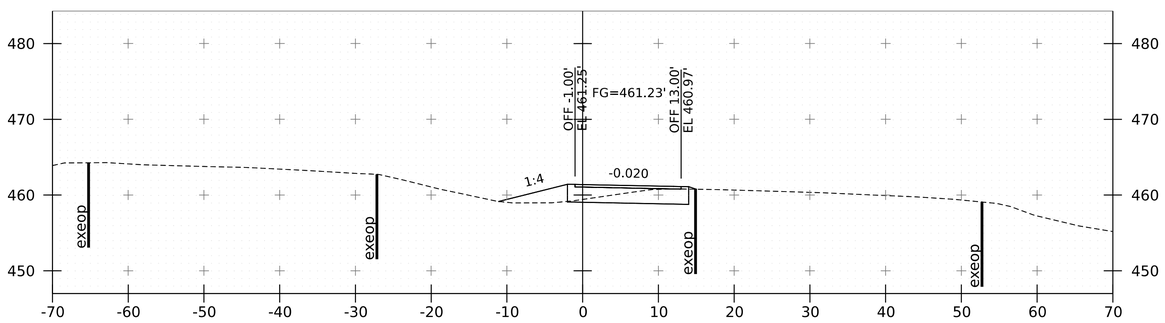


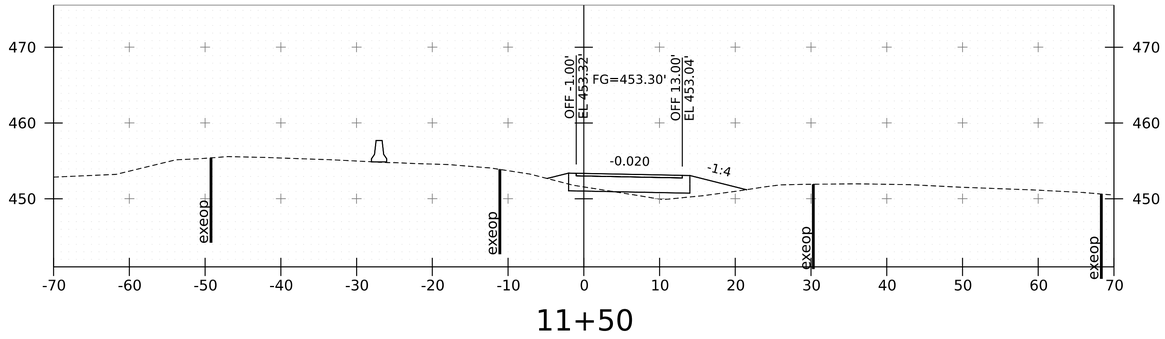
9+00

NOTE: LIDAR USED TO DEVELOP CROSSOVERS FROM STA. 4+80 - STA. 12+00

Stantec

PROJECT NAME:	FAIRLEE
PROJECT NUMBER:	IM 091-2(91)

FILE NAME:	z21a024_xs_I91_NB_crossover.dgn	PLOT DATE:	3-APR-2024
PROJECT LEADER:	J. GRIGAS	DRAWN BY:	G. BURGMEIER
DESIGNED BY:	G. BURGMEIER	CHECKED BY:	I. MAYNARD
I91 NB CROSSOVER XS SHEET 2		SHEET	28 OF 100



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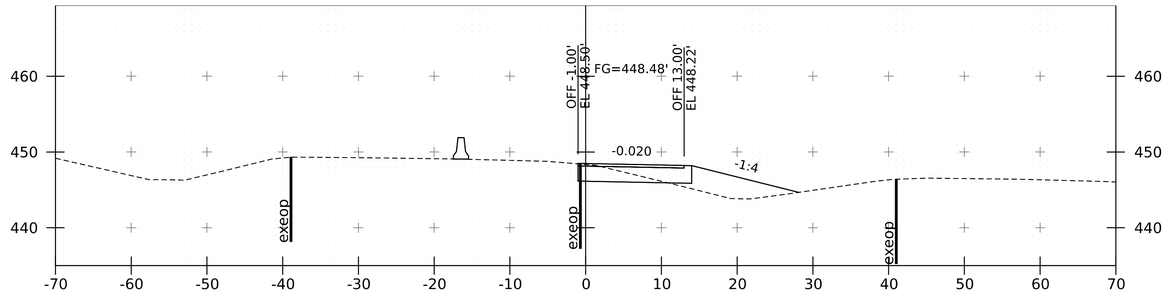

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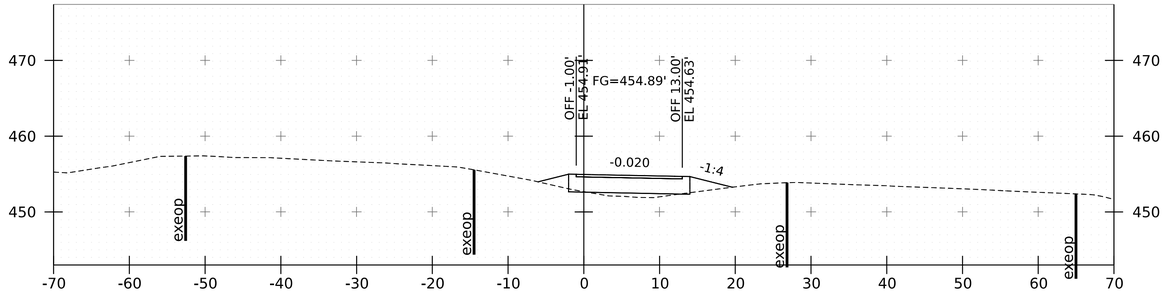

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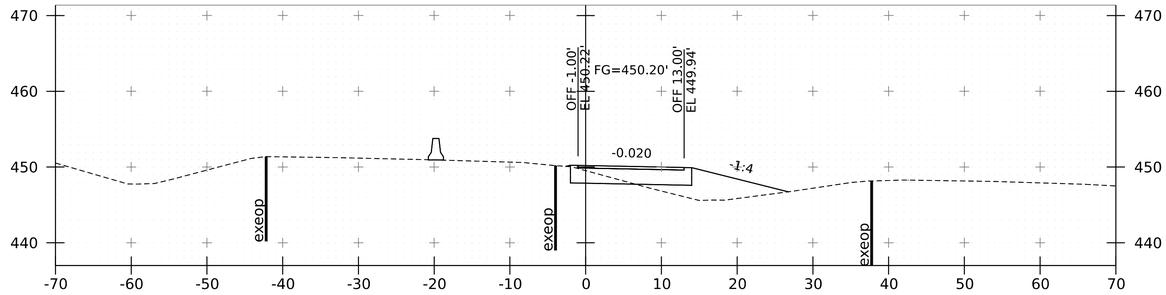

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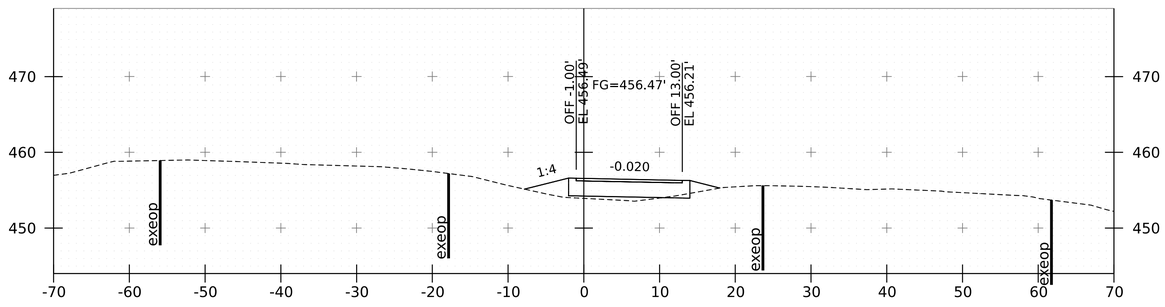

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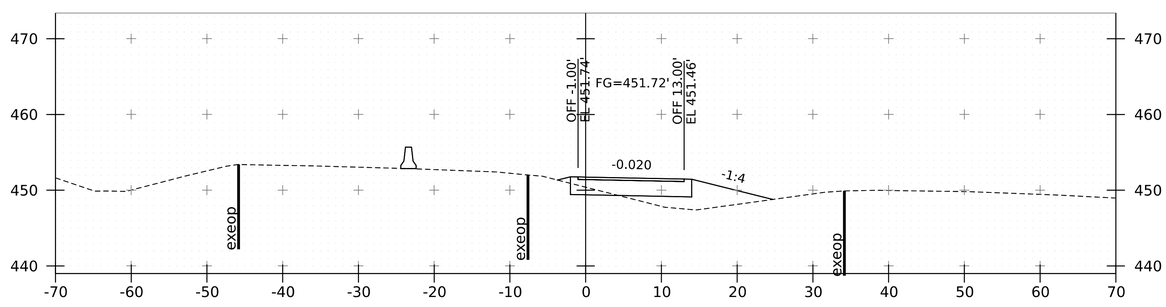
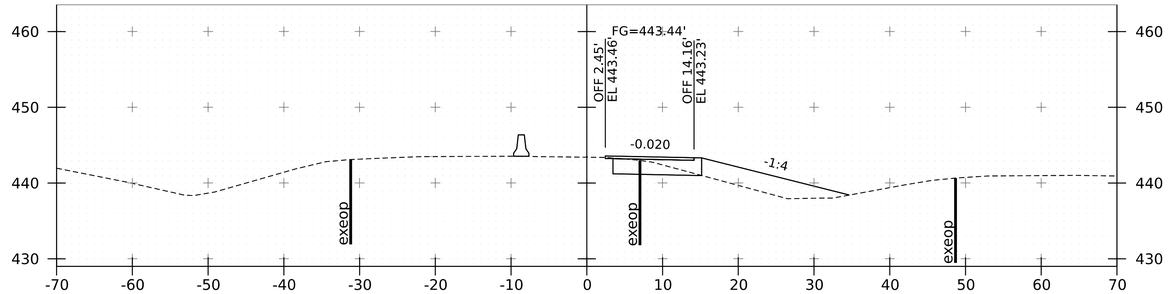


12+00

NOTE: LIDAR USED TO DEVELOP CROSSOVERS FROM STA. 4+80 - STA. 12+00

Stantec

PROJECT NAME:	FAIRLEE
PROJECT NUMBER:	IM 091-2(91)
FILE NAME:	z21a024_xs_I91_NB_crossover.dgn
PROJECT LEADER:	J. GRIGAS
DESIGNED BY:	G. BURGMEIER
I91 NB CROSSOVER XS SHEET 3	
PLOT DATE:	3-APR-2024
DRAWN BY:	G. BURGMEIERQ
CHECKED BY:	I. MAYNARD
SHEET	29 OF 100



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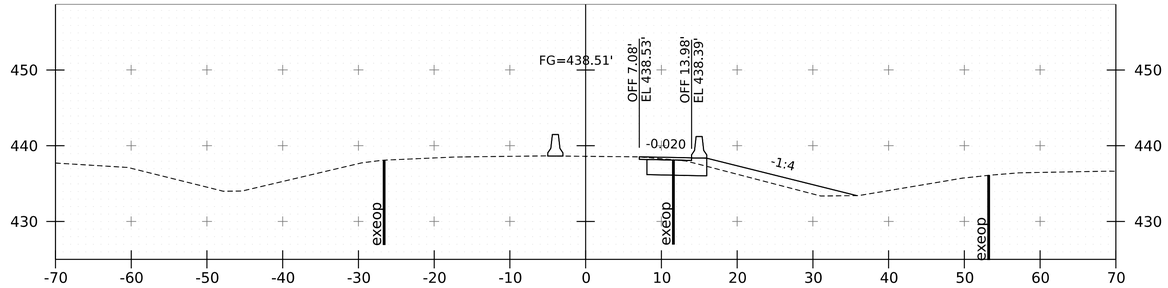

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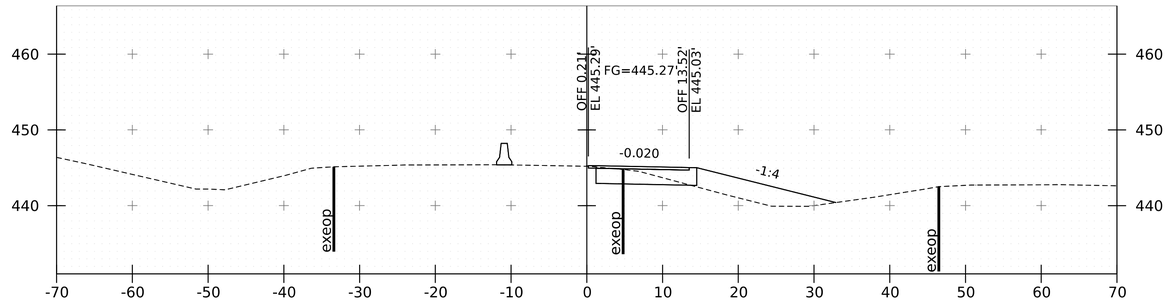

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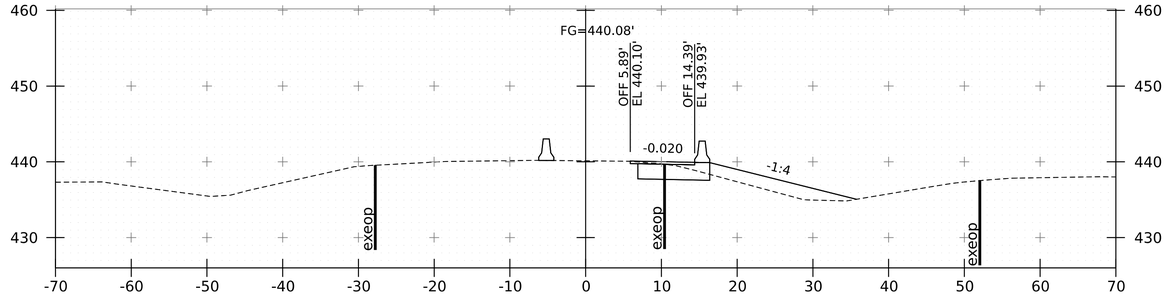

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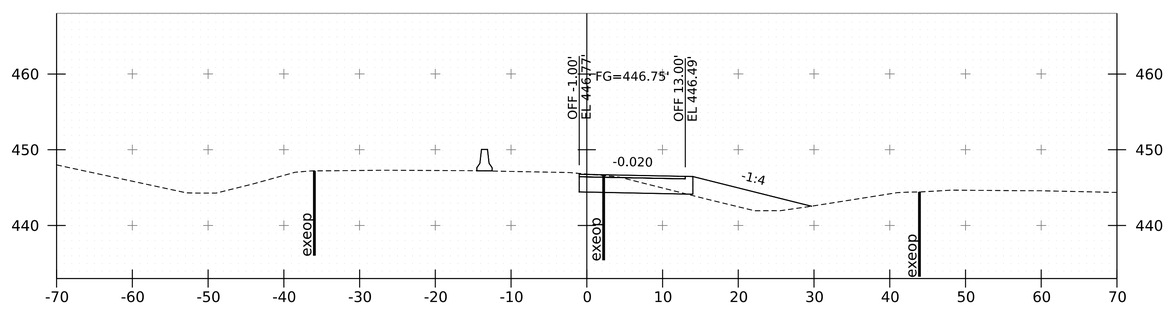

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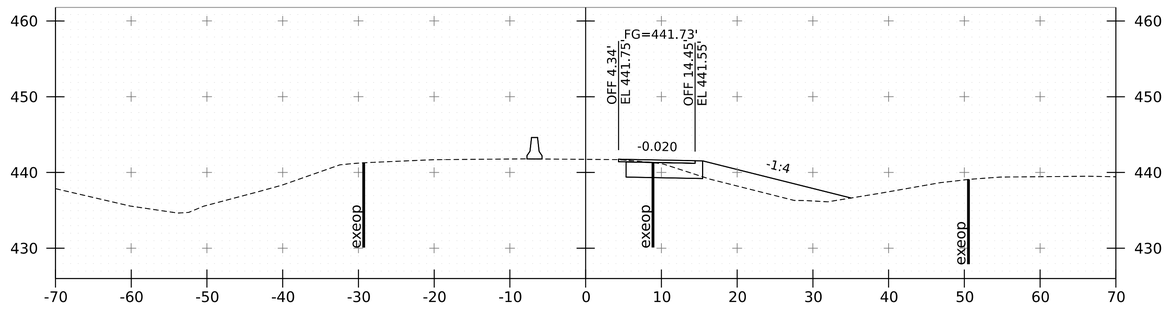
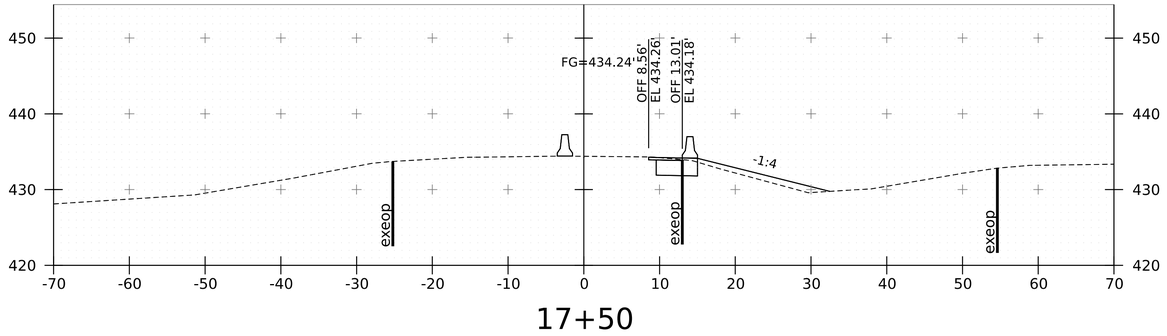


15+00

PROJECT NAME:	FAIRLEE
PROJECT NUMBER:	IM 091-2(91)

FILE NAME:	z21a024_xs_I91_NB_crossover.dgn	PLOT DATE:	3-APR-2024
PROJECT LEADER:	J. GRIGAS	DRAWN BY:	G. BURGMEIER
DESIGNED BY:	G. BURGMEIER	CHECKED BY:	I. MAYNARD
I91 NB CROSSOVER XS SHEET 4		SHEET	30 OF 100

Stantec



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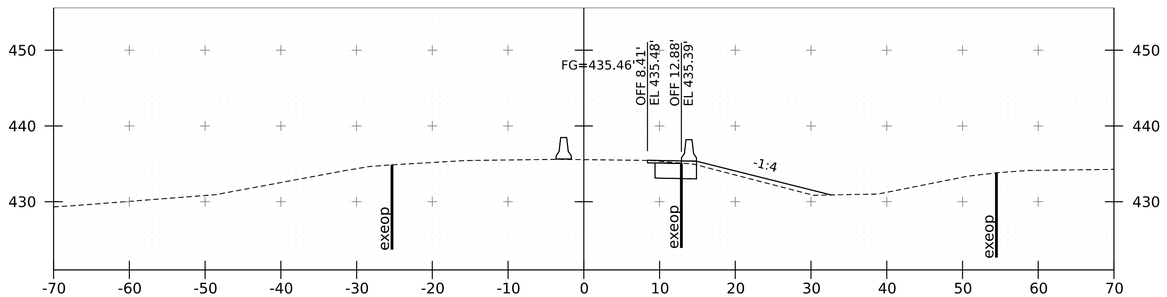

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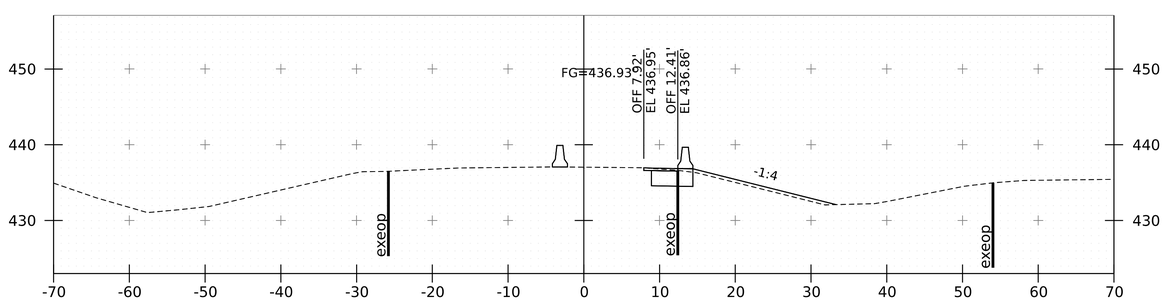

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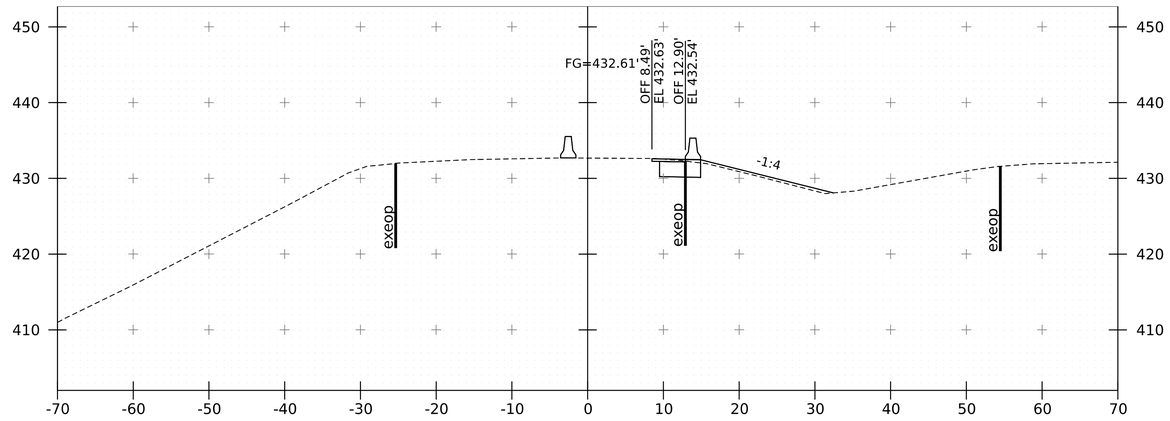

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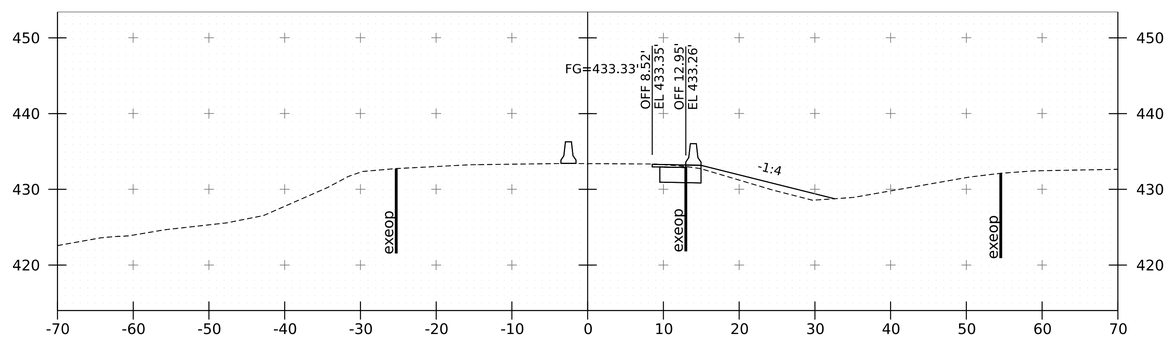
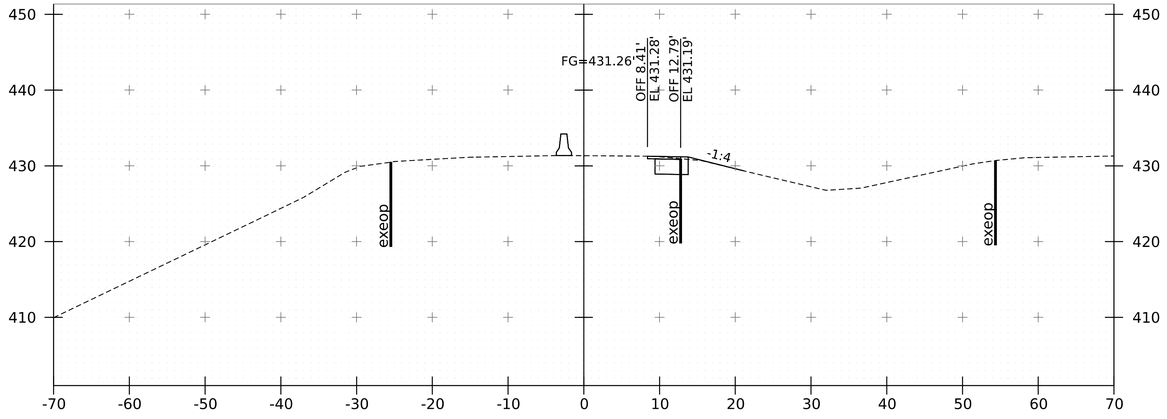


18+00

Stantec

PROJECT NAME:	FAIRLEE
PROJECT NUMBER:	IM 091-2(91)

FILE NAME:	z21a024_xs_I91_NB_crossover.dgn	PLOT DATE:	3-APR-2024
PROJECT LEADER:	J. GRIGAS	DRAWN BY:	G. BURGMEIER
DESIGNED BY:	G. BURGMEIER	CHECKED BY:	I. MAYNARD
I91 NB CROSSOVER XS SHEET 5		SHEET	31 OF 100



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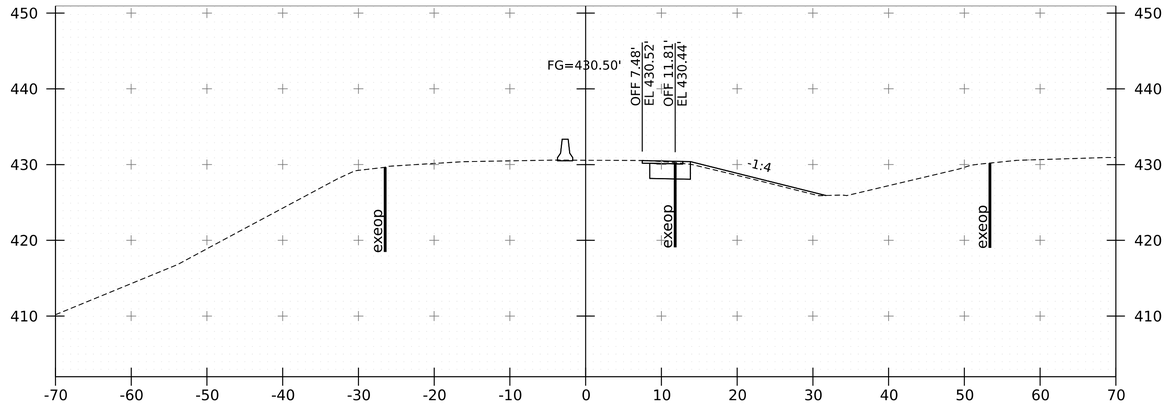

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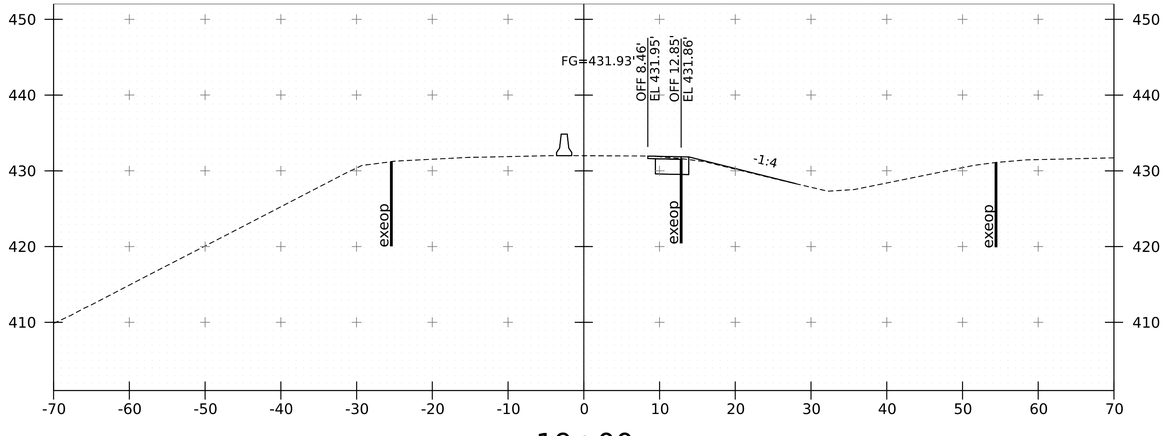

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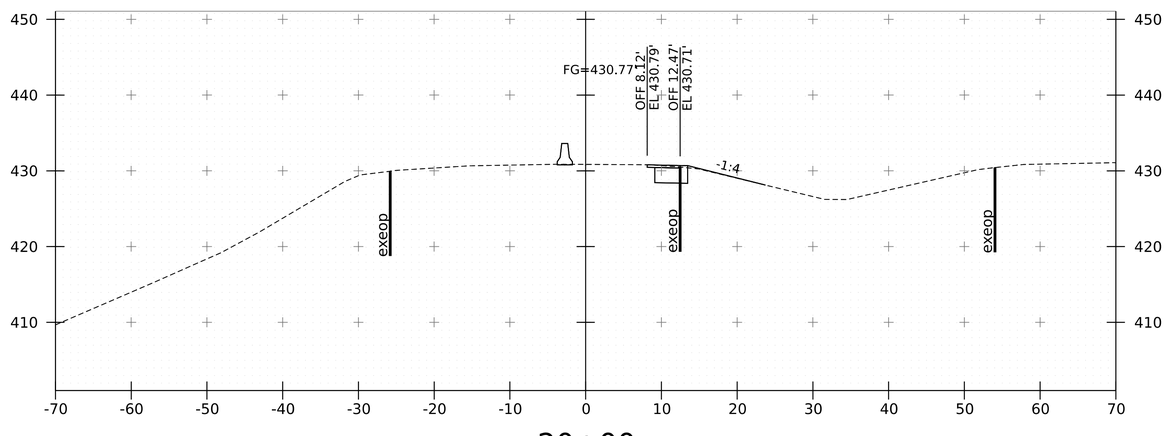
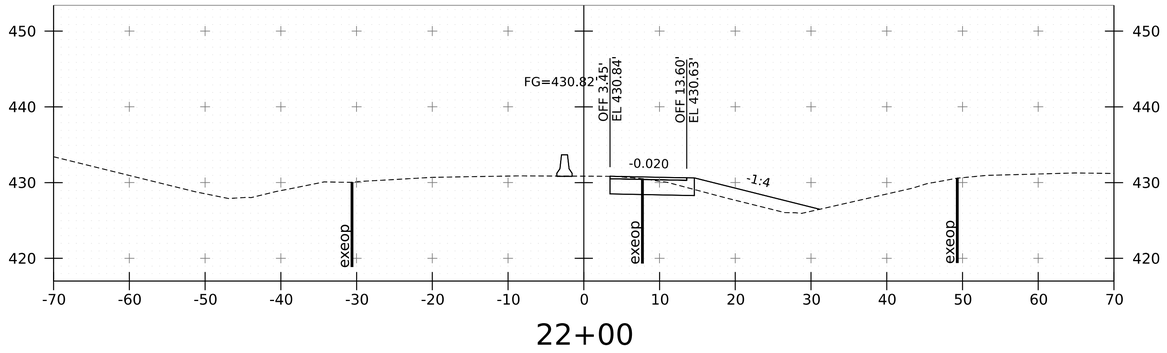


20+00

PROJECT NAME:	FAIRLEE
PROJECT NUMBER:	IM 091-2(91)
FILE NAME: z21a024_xs_I91_NB_crossover.dgn	PLOT DATE: 3-APR-2024
PROJECT LEADER: J. GRIGAS	DRAWN BY: G. BURGMEIER
DESIGNED BY: G. BURGMEIER	CHECKED BY: I. MAYNARD
I91 NB CROSSOVER XS SHEET 6	SHEET 32 OF 100

Stantec



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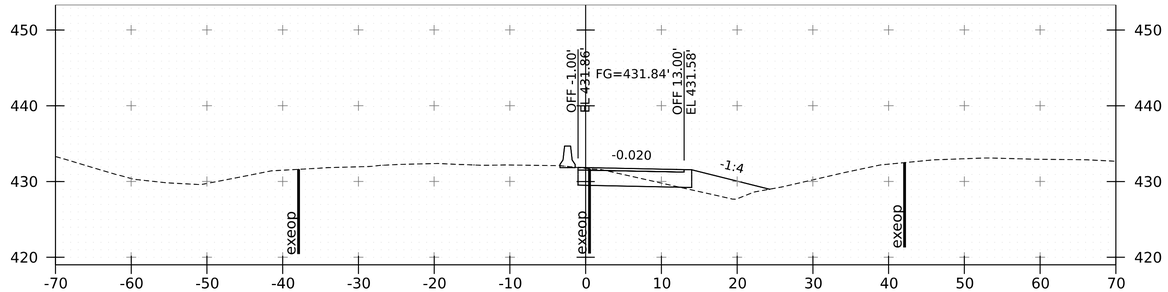

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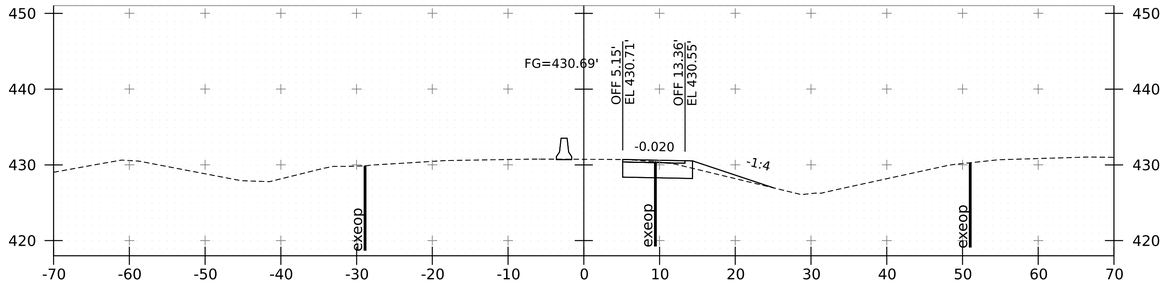

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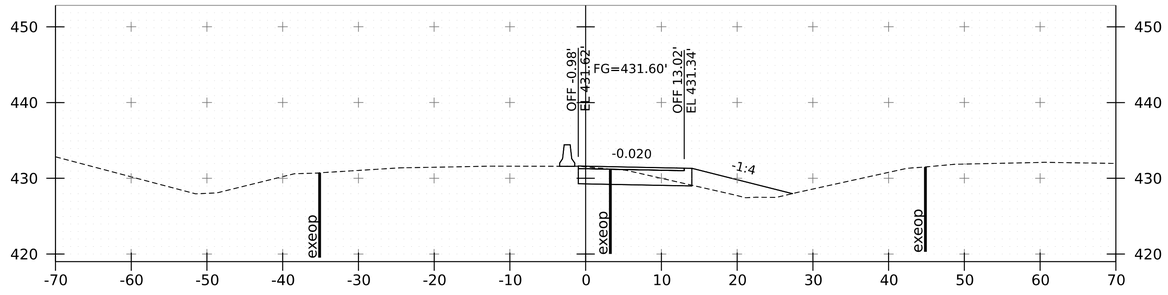

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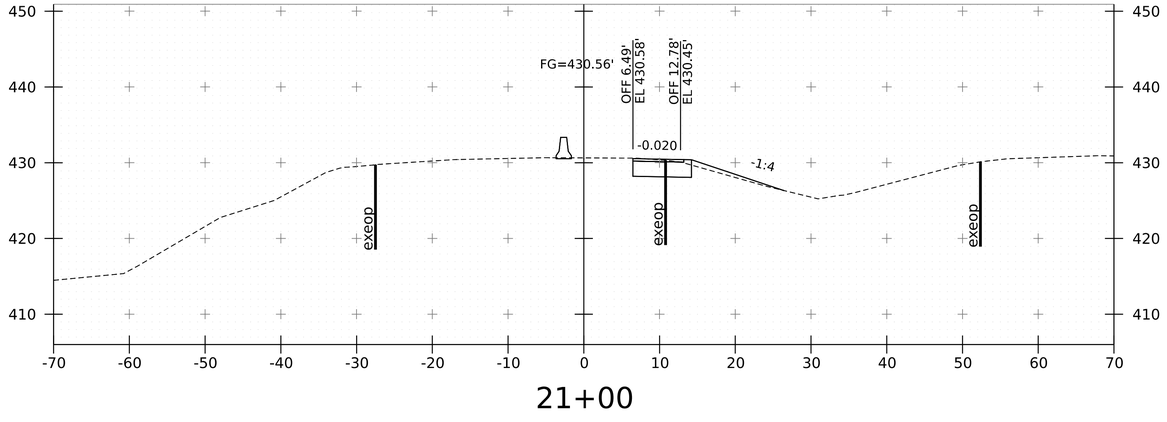

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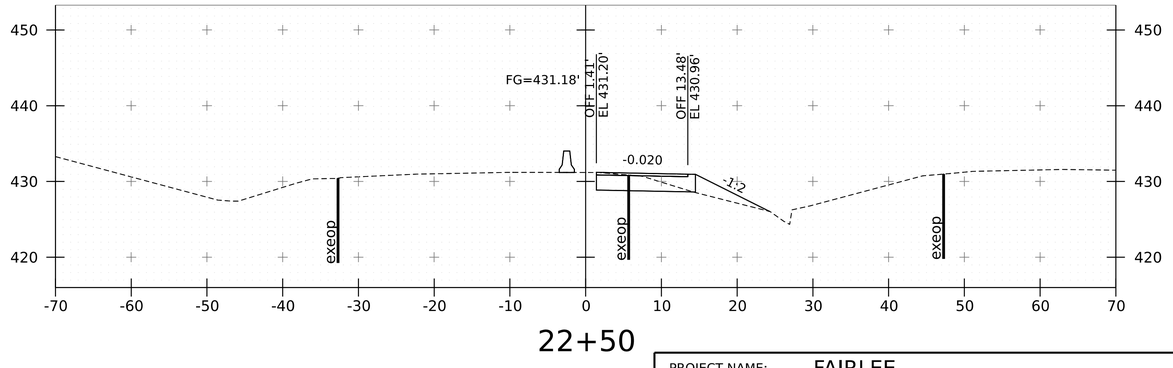
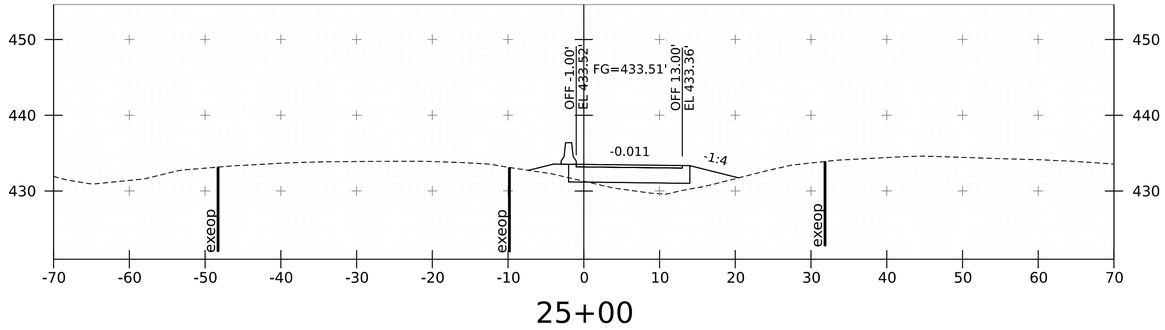


22+50

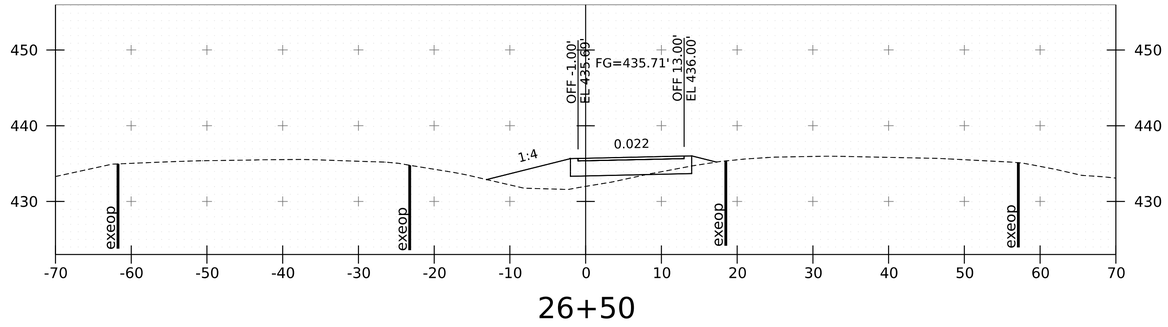
NOTE: LIDAR USED TO DEVELOP CROSSOVERS FROM STA. 23+25 - STA. 29+10

Stantec

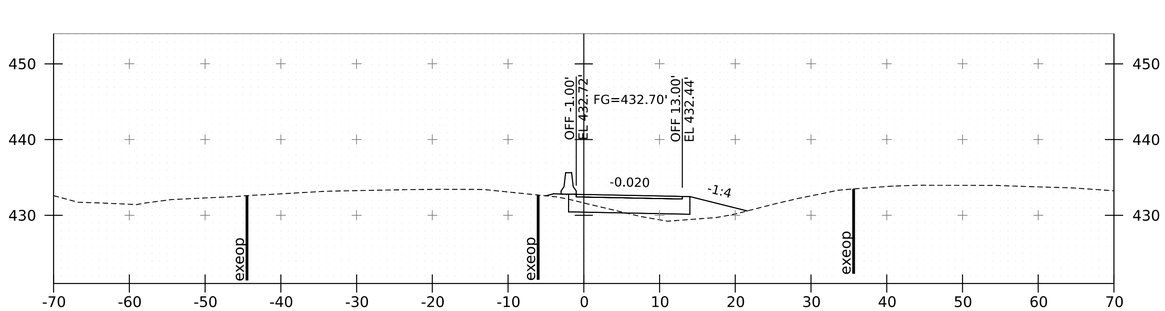
PROJECT NAME:	FAIRLEE
PROJECT NUMBER:	IM 091-2(91)
FILE NAME: z21a024_xs_I91_NB_crossover.dgn	PLOT DATE: 3-APR-2024
PROJECT LEADER: J. GRIGAS	DRAWN BY: G. BURGMEIER
DESIGNED BY: G. BURGMEIER	CHECKED BY: I. MAYNARD
I91 NB CROSSOVER XS SHEET 7	SHEET 33 OF 100



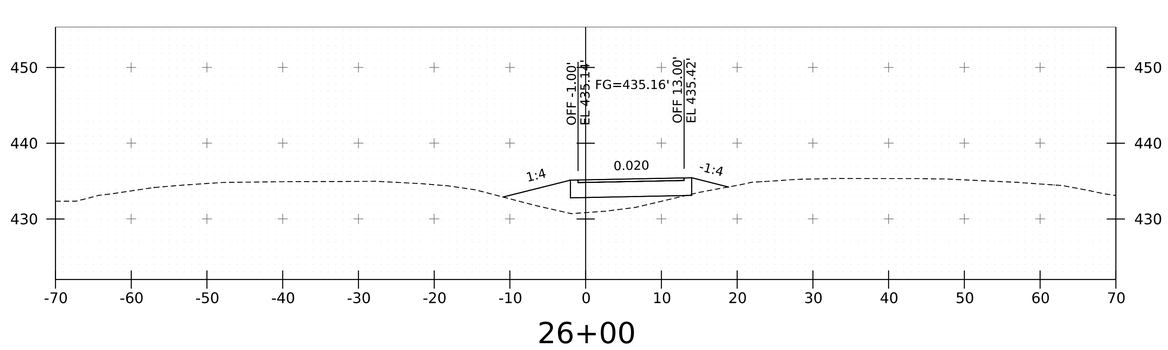
25+00



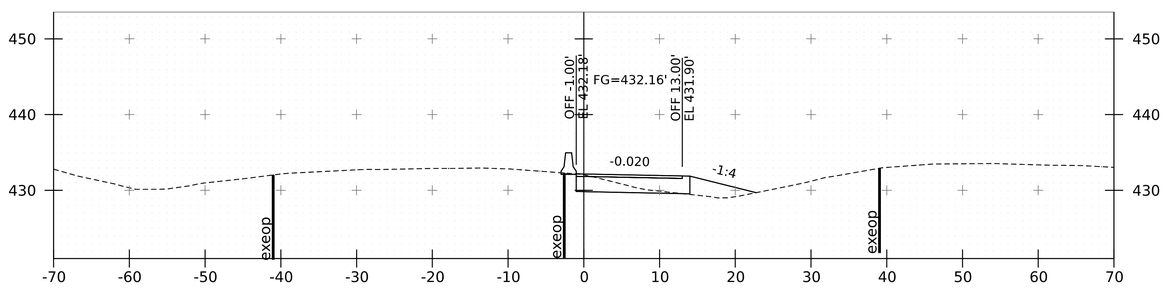
26+50



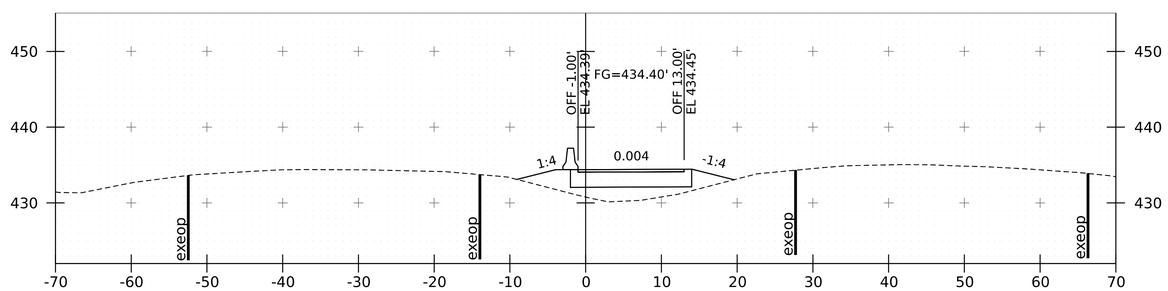
24+50



26+00



24+00

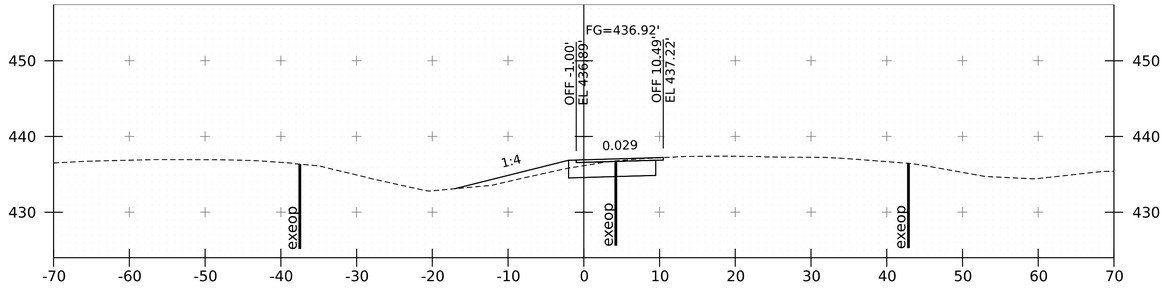


25+50

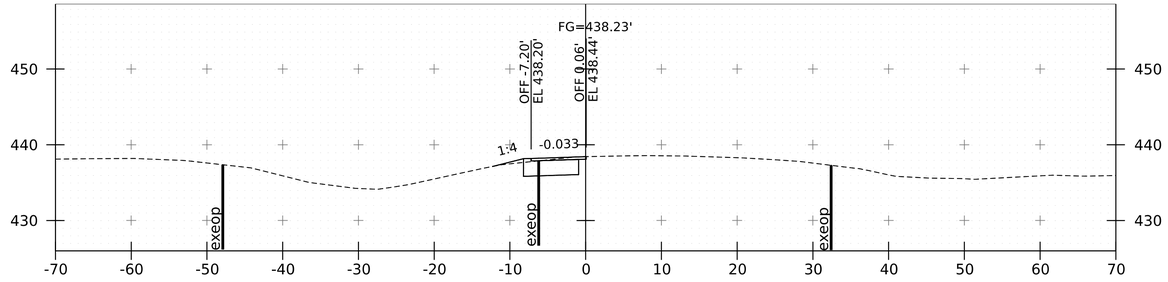
NOTE: LIDAR USED TO DEVELOP CROSSOVERS FROM STA. 23+25 - STA. 29+10

Stantec

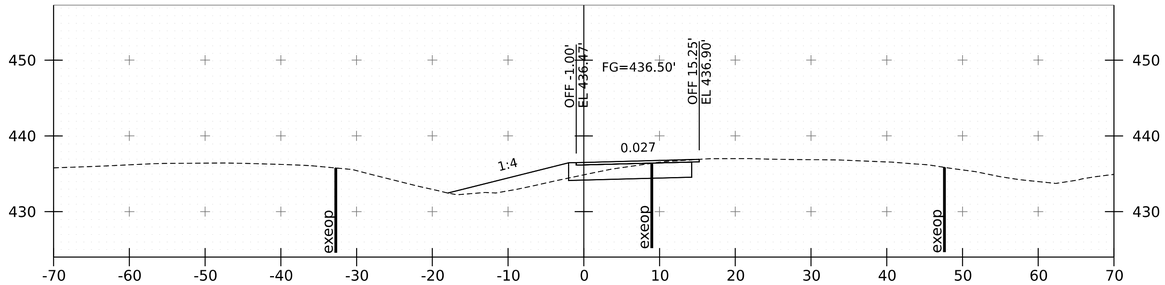
PROJECT NAME:	FAIRLEE
PROJECT NUMBER:	IM 091-2(91)
FILE NAME: z21a024_xs_I91_NB_crossover.dgn	PLOT DATE: 3-APR-2024
PROJECT LEADER: J. GRIGAS	DRAWN BY: G. BURGMEIER
DESIGNED BY: G. BURGMEIER	CHECKED BY: I. MAYNARD
I91 NB CROSSOVER XS SHEET 8	SHEET 34 OF 100



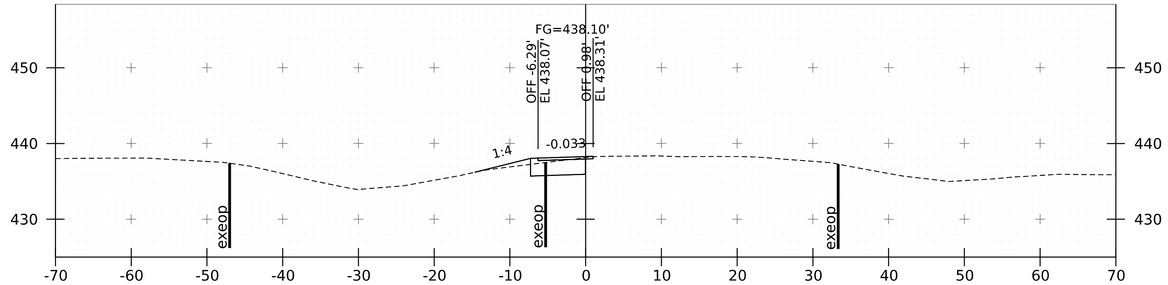
28+00



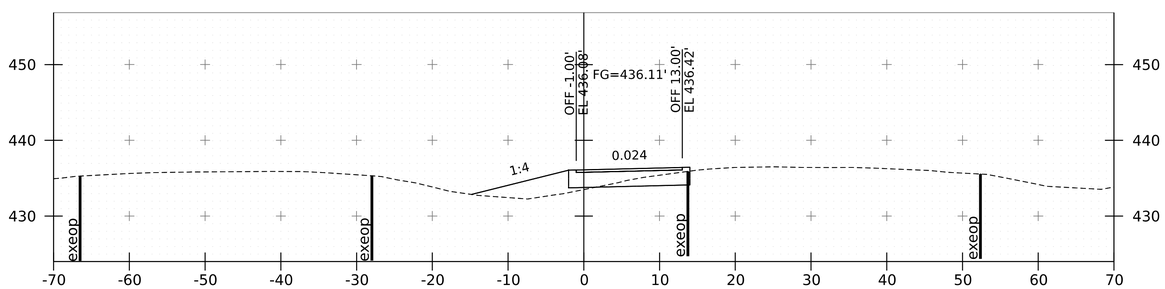
29+10



27+50



29+00



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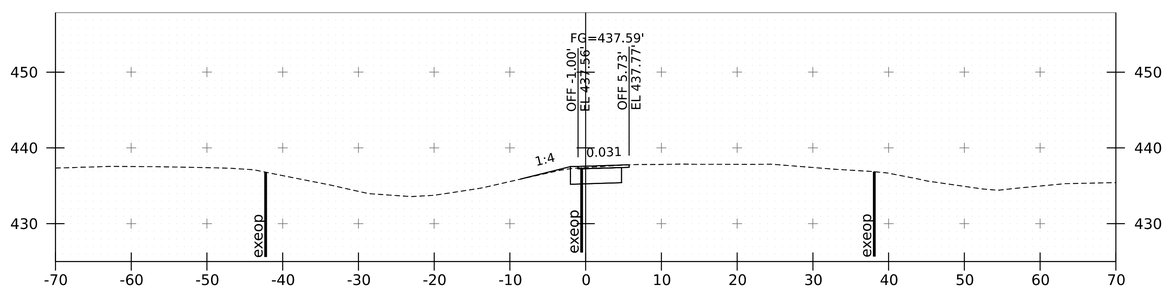


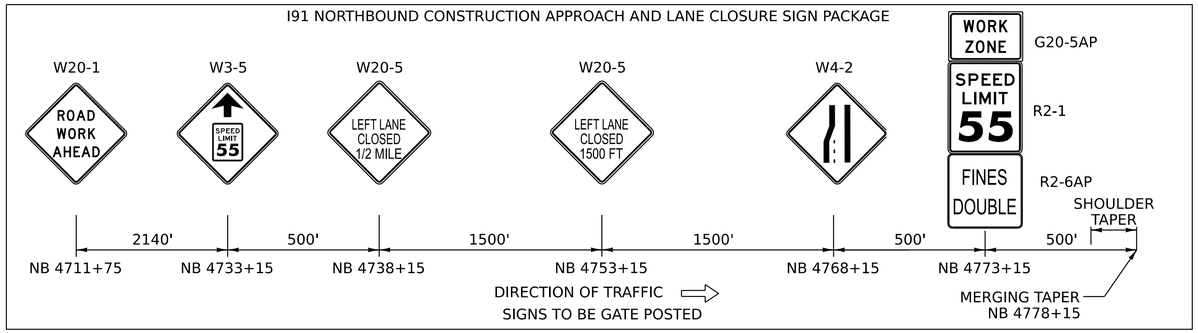
28+50

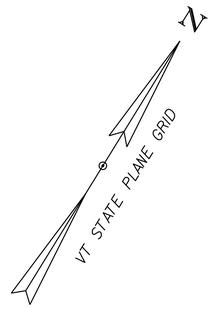
NOTE: LIDAR USED TO DEVELOP CROSSOVERS FROM STA. 23+25 - STA. 29+10

Stantec

PROJECT NAME:	FAIRLEE
PROJECT NUMBER:	IM 091-2(91)
FILE NAME: z21a024_xs_I91_NB_crossover.dgn	PLOT DATE: 3-APR-2024
PROJECT LEADER: J. GRIGAS	DRAWN BY: G. BURGMEIER
DESIGNED BY: G. BURGMEIER	CHECKED BY: I. MAYNARD
I91 NB CROSSOVER XS SHEET 9	SHEET 35 OF 100

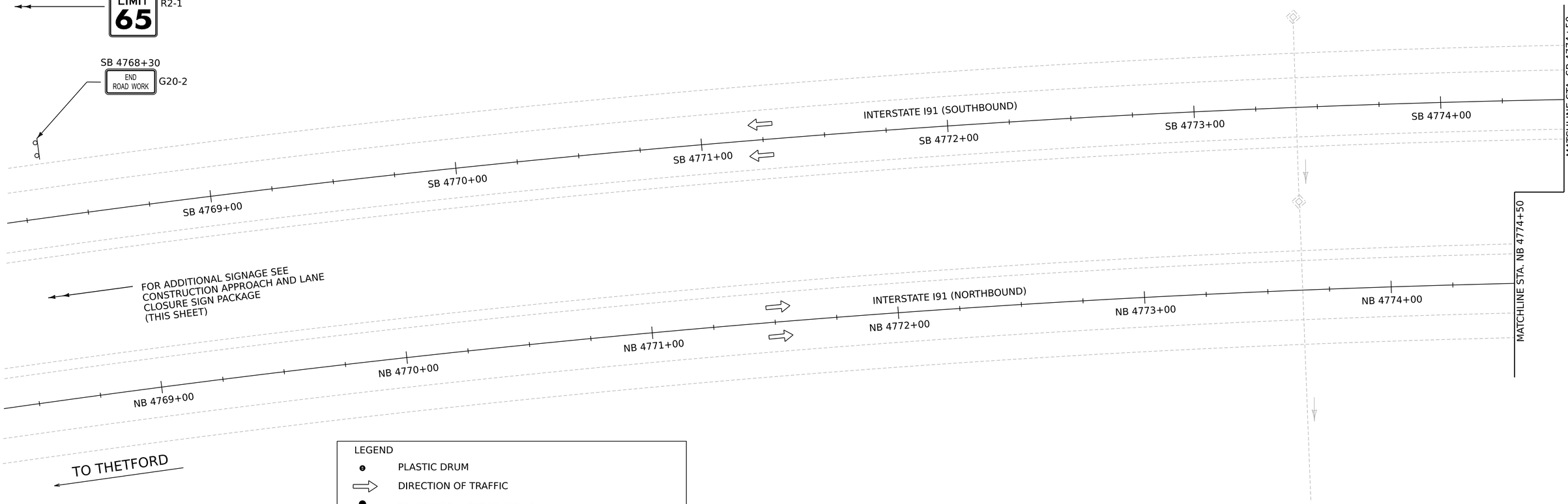
I91 NORTHBOUND CONSTRUCTION APPROACH AND LANE CLOSURE SIGN PACKAGE





SB 4763+30
SPEED LIMIT 65 R2-1

SB 4768+30
END ROAD WORK G20-2



LEGEND

- PLASTIC DRUM
- DIRECTION OF TRAFFIC
- TRAFFIC DELINEATOR (YELLOW)
- TRAFFIC DELINEATOR (WHITE)
- PORTABLE ARROW BOARD
- PCMS — PORTABLE CHANGEABLE MESSAGE SIGN
- TYPE III BARRACADE WITH ROAD CLOSED SIGN
- TYPE III BARRACADE
- TEMPORARY TRAFFIC BARRIER
- REMOVAL OR MASKING OF EXISTING PAVEMENT MARKINGS
- ENERGY ABSORBTION ATTENUATOR

NOTES:

1. ALL EXISTING PAVEMENT MARKINGS, IN CONFLICT WITH TEMPORARY PAVEMENT MARKINGS, WILL BE REMOVED OR MASKED.
2. 12' TRAVEL LANES WITH MINIMUM 1' SHOULDERS.

0 20 40
SCALE IN FEET

Stantec

PROJECT NAME: FAIRLEE
PROJECT NUMBER: IM 091-2(91)

FILE NAME: z21a024bdr_tcp_SB.dgn
PROJECT LEADER: J. GRIGAS
DESIGNED BY: G. BURGMEIER
CROSSOVER SB PLAN SHEET 1

PLOT DATE: 3-APR-2024
DRAWN BY: D. DRAPER
CHECKED BY: I. MAYNARD
SHEET 36 OF 100

TEMPORARY 6 INCH WHITE LINE, PAINT
STA. SB 4775+95 TO SB 4780+00, LT

TEMPORARY 6 INCH YELLOW LINE, PAINT
STA. NB 4775+95 TO NB 4780+00, LT

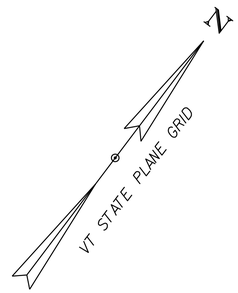
PAVEMENT MARKING MASK
STA. NB 4775+95 TO NB 4780+00, DASHED CL
STA. SB 4775+95 TO SB 4780+00, DASHED CL

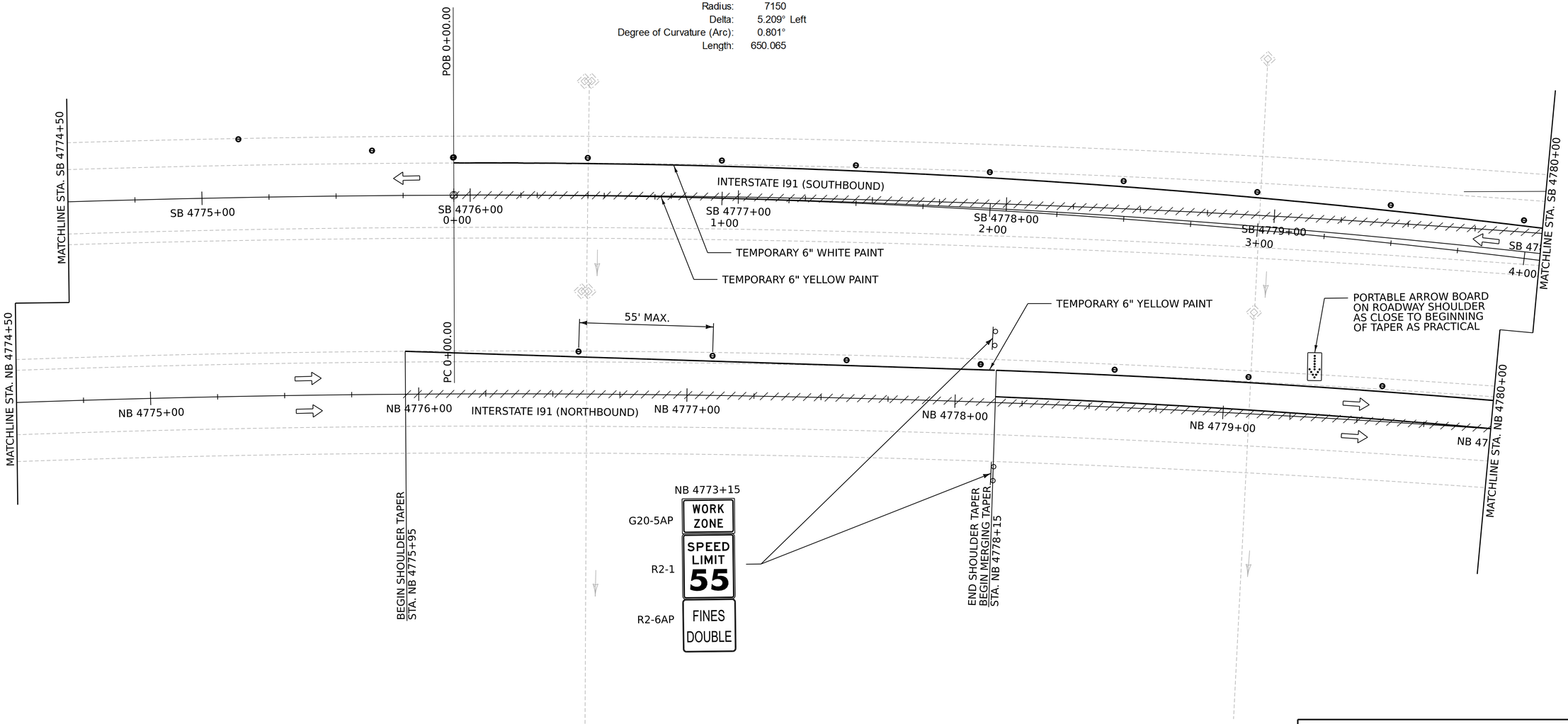
SOUTHBOUND CROSSOVER HORIZONTAL ALIGNMENT

Element: Circular					
PC	(PC)	0+00.000	508834.721	1727642.067	
PI	(PI)	4+24.608	509144.325	1727932.648	
CC	(CC)		506644.799	1729975.357	
PT	(PT)	8+44.285	509367.436	1728293.915	
	Radius:	3200			
	Delta:	15.117°	Right		
	Degree of Curvature (Arc):	1.790°			
	Length:	844.285			
Element: Linear					
PT	(PT)	8+44.285	509367.436	1728293.915	
PC	(PC)	20+92.995	510023.572	1729356.347	
	Tangential Direction:	N58.301°E			
	Tangential Length:	1248.71			
Element: Circular					
PC	(PC)	20+92.995	510023.572	1729356.347	
PI	(PI)	24+18.252	510194.478	1729633.083	
CC	(CC)		516106.964	1725599.375	
PT	(PT)	27+43.060	510389.804	1729893.159	
	Radius:	7150			
	Delta:	5.209°	Left		
	Degree of Curvature (Arc):	0.801°			
	Length:	650.065			

SOUTHBOUND CROSSOVER HORIZONTAL ALIGNMENT (CONT.)

Element: Linear					
PT	(PT)	27+43.060	510389.804	1729893.159	
PC	(PC)	28+75.229	510469.175	1729998.842	
	Tangential Direction:	N53.092°E			
	Tangential Length:	132.169			
Element: Circular					
PC	(PC)	28+75.229	510469.175	1729998.842	
PI	(PI)	31+88.472	510657.287	1730249.312	
CC	(CC)		504752.016	1734292.627	
PT	(PT)	35+01.315	510822.774	1730515.273	
	Radius:	7150			
	Delta:	5.017°	Right		
	Degree of Curvature (Arc):	0.801°			
	Length:	626.086			





NOTES:

1. ALL EXISTING PAVEMENT MARKINGS, IN CONFLICT WITH TEMPORARY PAVEMENT MARKINGS, WILL BE REMOVED OR MASKED.
2. 12' TRAVEL LANES WITH MINIMUM 1' SHOULDERS.

0 20 40
SCALE IN FEET

Stantec

PROJECT NAME: FAIRLEE
PROJECT NUMBER: IM 091-2(91)

FILE NAME: z21a024bdr_tcp_SB.dgn
PROJECT LEADER: J. GRIGAS
DESIGNED BY: G. BURGMEIER
CROSSOVER SB PLAN SHEET 2

PLOT DATE: 3-APR-2024
DRAWN BY: D. DRAPER
CHECKED BY: I. MAYNARD
SHEET 37 OF 100

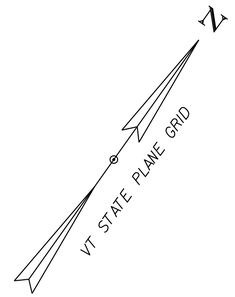
ENERGY ABSORPTION ATTENUATOR, TEMPORARY
STA. NB 4784+57 TO NB 4784+75, LT TO CL

TEMPORARY TRAFFIC BARRIER
STA. NB 4784+75 TO NB 4786+00, CL

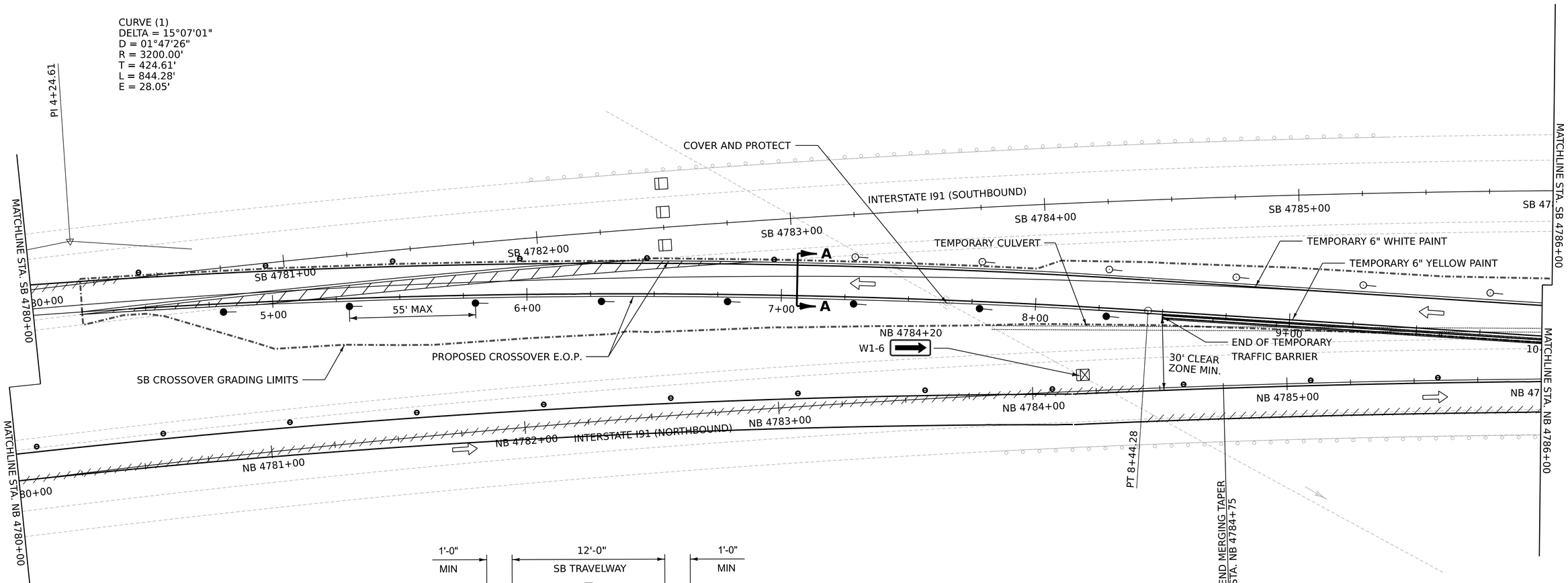
TEMPORARY 6 INCH WHITE LINE, PAINT
STA. SB 4780+00, LT TO NB 4786+00, LT

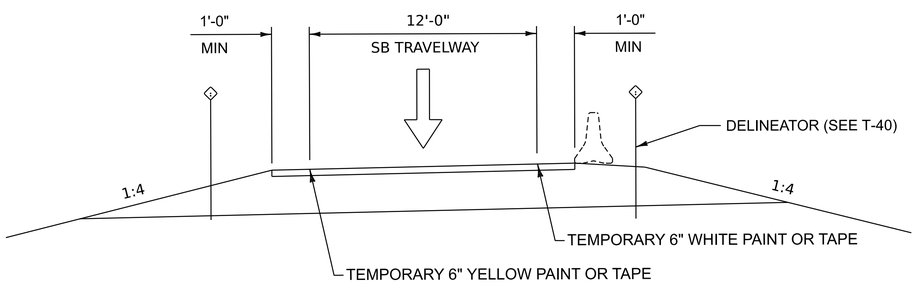
TEMPORARY 6 INCH YELLOW LINE, PAINT
STA. NB 4780+19, LT TO NB 4786+00, RT
STA. SB 4780+00, RT TO NB 4786+00, LT

PAVEMENT MARKING MASK
STA. NB 4780+00 TO NB 4784+50, DASHED CL
STA. SB 4780+00 TO SB 4780+35, DASHED CL
STA. NB 4784+45 TO NB 4786+00, SOLID RT



CURVE (1)
DELTA = 15°07'01"
D = 01°47'26"
R = 3200.00'
T = 424.61'
L = 844.28'
E = 28.05'





SB CROSSOVER SECTION A-A
NOT TO SCALE

NOTES:

1. ALL EXISTING PAVEMENT MARKINGS, IN CONFLICT WITH TEMPORARY PAVEMENT MARKINGS, WILL BE REMOVED OR MASKED.

2. 12' TRAVEL LANES WITH MINIMUM 1' SHOULDERS.

0 20 40
SCALE IN FEET

Stantec

PROJECT NAME: FAIRLEE
PROJECT NUMBER: IM 091-2(91)

FILE NAME: z21a024bdr_tcp_SB.dgn
PROJECT LEADER: J. GRIGAS
DESIGNED BY: G. BURGMEIER
CROSSOVER SB PLAN SHEET 3

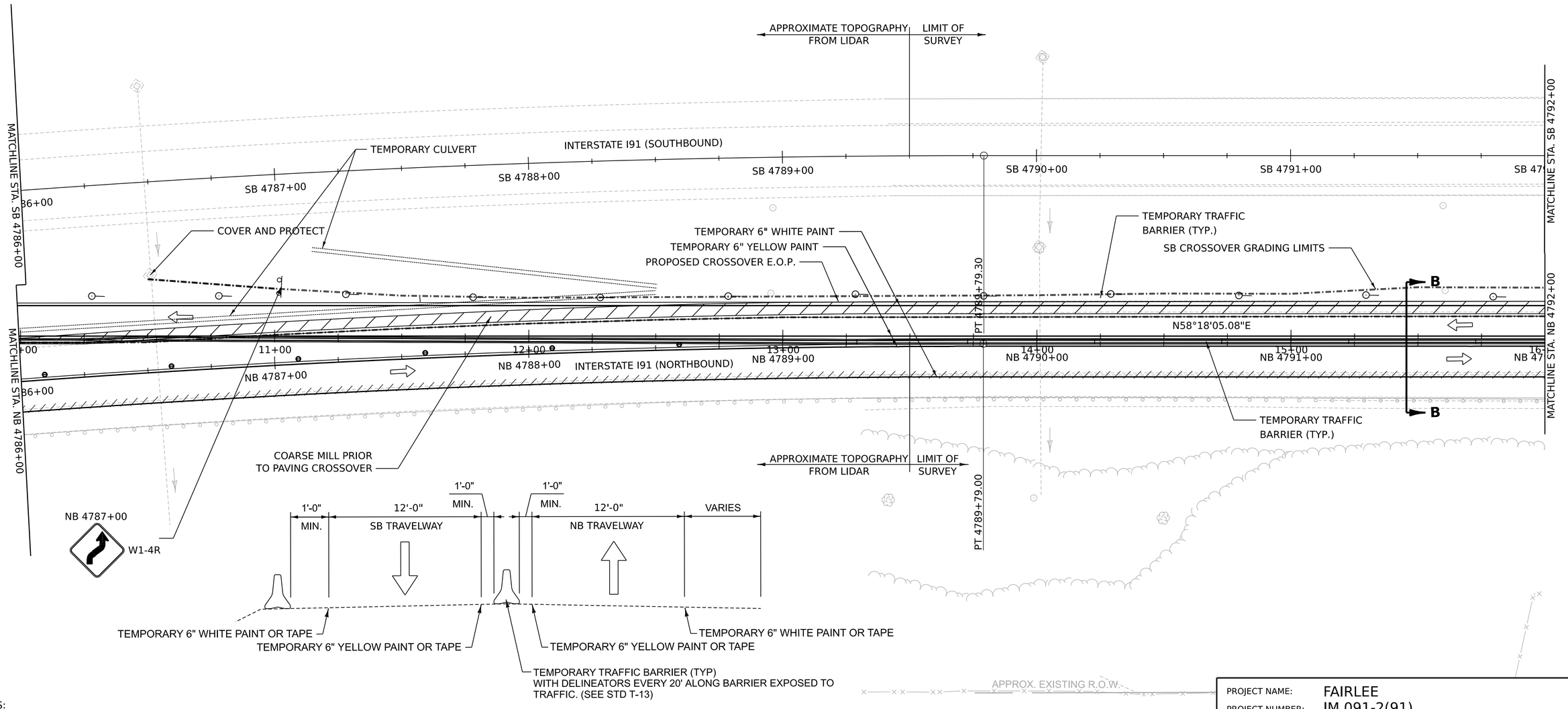
PLOT DATE: 3-APR-2024
DRAWN BY: D. DRAPER
CHECKED BY: I. MAYNARD
SHEET 38 OF 100

TEMPORARY TRAFFIC BARRIER
STA. NB 4786+00 TO NB 4792+00, CL
STA. NB 4786+50 TO NB 4792+00, LT

TEMPORARY 6 INCH WHITE LINE, PAINT
STA. NB 4786+00 TO NB 4792+00, LT & RT

TEMPORARY 6 INCH YELLOW LINE, PAINT
STA. NB 4786+00 TO NB 4792+00, LT & RT

PAVEMENT MARKING MASK
STA. NB 4786+00 TO NB 4792+00, SOLID RT



SB CROSSOVER SECTION B-B

NOT TO SCALE

NOTES:

1. ALL EXISTING PAVEMENT MARKINGS, IN CONFLICT WITH TEMPORARY PAVEMENT MARKINGS, WILL BE REMOVED OR MASKED.
2. 12' TRAVEL LANES WITH MINIMUM 1' SHOULDERS.

0 20 40
SCALE IN FEET

Stantec

PROJECT NAME:	FAIRLEE
PROJECT NUMBER:	IM 091-2(91)
FILE NAME: z21a024bdr_tcp_SB.dgn	PLOT DATE: 3-APR-2024
PROJECT LEADER: J. GRIGAS	DRAWN BY: D. DRAPER
DESIGNED BY: G. BURGMEIER	CHECKED BY: I. MAYNARD
CROSSOVER SB PLAN SHEET 4	SHEET 39 OF 100

TEMPORARY TRAFFIC BARRIER
STA. NB 4792+00 TO NB 4798+00, LT & CL

TEMPORARY 6 INCH WHITE LINE, PAINT
STA. NB 4792+00 TO NB 4798+00, LT & RT

TEMPORARY 6 INCH YELLOW LINE, PAINT
STA. NB 4792+00 TO NB 4798+00, LT & RT

PAVEMENT MARKING MASK
STA. NB 4792+00 TO NB 4798+00, SOLID RT

APPROX. EXISTING R.O.W.

APPROX. EXISTING R.O.W.

POT 53+98.69

POE 54+17

N36°23'12"E

LAKE MOREY OUTLET FLOW

VT STATE PLANE GRID

54+00

MATCHLINE STA. SB 4792+00

INTERSTATE I91 (SOUTHBOUND)

N58°18'05"E

SB 4793+00

SB 4794+00

SB 4795+00

SB 4796+00

SB 4797+00

MATCHLINE STA. SB 4798+00

53+00

PC 20+92.89

END OF TEMPORARY TRAFFIC BARRIER

COARSE MILL PRIOR TO PAVING CROSSOVER

SB CROSSOVER GRADING LIMITS

N02°15'55"W

TEMPORARY 6" WHITE PAINT

TEMPORARY 6" YELLOW PAINT

MATCHLINE STA. NB 4792+00

N58°18'05"E

NB 4793+00

NB 4794+00

INTERSTATE I91 (NORTHBOUND)

NB 4795+00

NB 4796+00

NB 4797+00

MATCHLINE STA. NB 4798+00

52+00

POB 50+00.00

POT 50+90.36

N54°21'16"E

51+00

50+00

APPROX. EXISTING R.O.W.

NOTES:

1. ALL EXISTING PAVEMENT MARKINGS, IN CONFLICT WITH TEMPORARY PAVEMENT MARKINGS, WILL BE REMOVED OR MASKED.

2. 12' TRAVEL LANES WITH MINIMUM 1' SHOULDERS.

0 20 40
SCALE IN FEET

Stantec

PROJECT NAME: FAIRLEE
PROJECT NUMBER: IM 091-2(91)

FILE NAME: z21a024bdr_tcp_SB.dgn
PROJECT LEADER: J. GRIGAS
DESIGNED BY: G. BURGMEIER
CROSSOVER SB PLAN SHEET 5

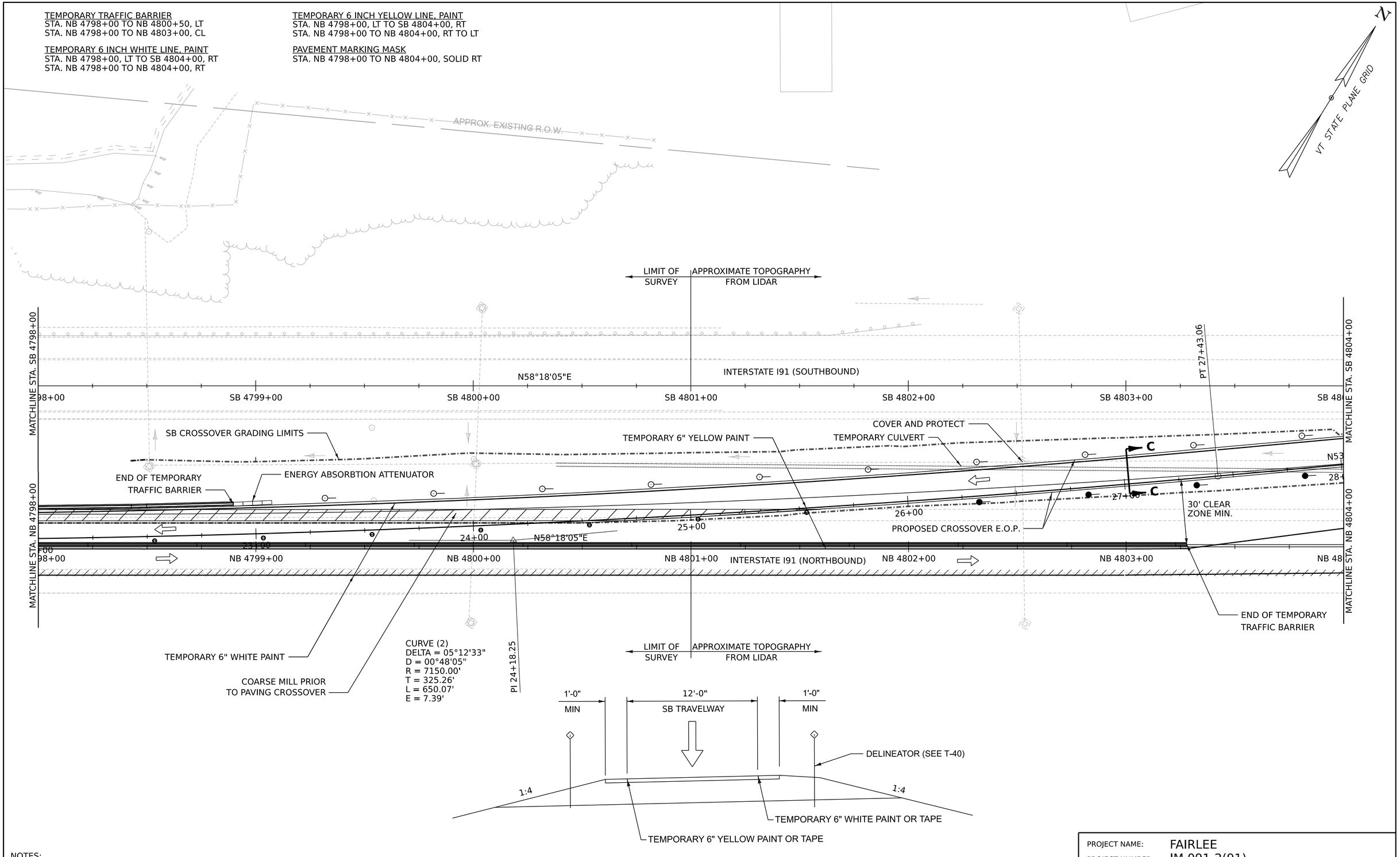
PLOT DATE: 3-APR-2024
DRAWN BY: D. DRAPER
CHECKED BY: I. MAYNARD
SHEET 40 OF 100

TEMPORARY TRAFFIC BARRIER
STA. NB 4798+00 TO NB 4800+50, LT
STA. NB 4798+00 TO NB 4803+00, CL

TEMPORARY 6 INCH WHITE LINE, PAINT
STA. NB 4798+00, LT TO SB 4804+00, RT
STA. NB 4798+00 TO NB 4804+00, RT

TEMPORARY 6 INCH YELLOW LINE, PAINT
STA. NB 4798+00, LT TO SB 4804+00, RT
STA. NB 4798+00 TO NB 4804+00, RT TO LT

PAVEMENT MARKING MASK
STA. NB 4798+00 TO NB 4804+00, SOLID RT



SB CROSSOVER SECTION C-C
NOT TO SCALE

NOTES:

1. ALL EXISTING PAVEMENT MARKINGS, IN CONFLICT WITH TEMPORARY PAVEMENT MARKINGS, WILL BE REMOVED OR MASKED.

2. 12' TRAVEL LANES WITH MINIMUM 1' SHOULDERS.

0 20 40
SCALE IN FEET

Stantec

PROJECT NAME: FAIRLEE
PROJECT NUMBER: IM 091-2(91)

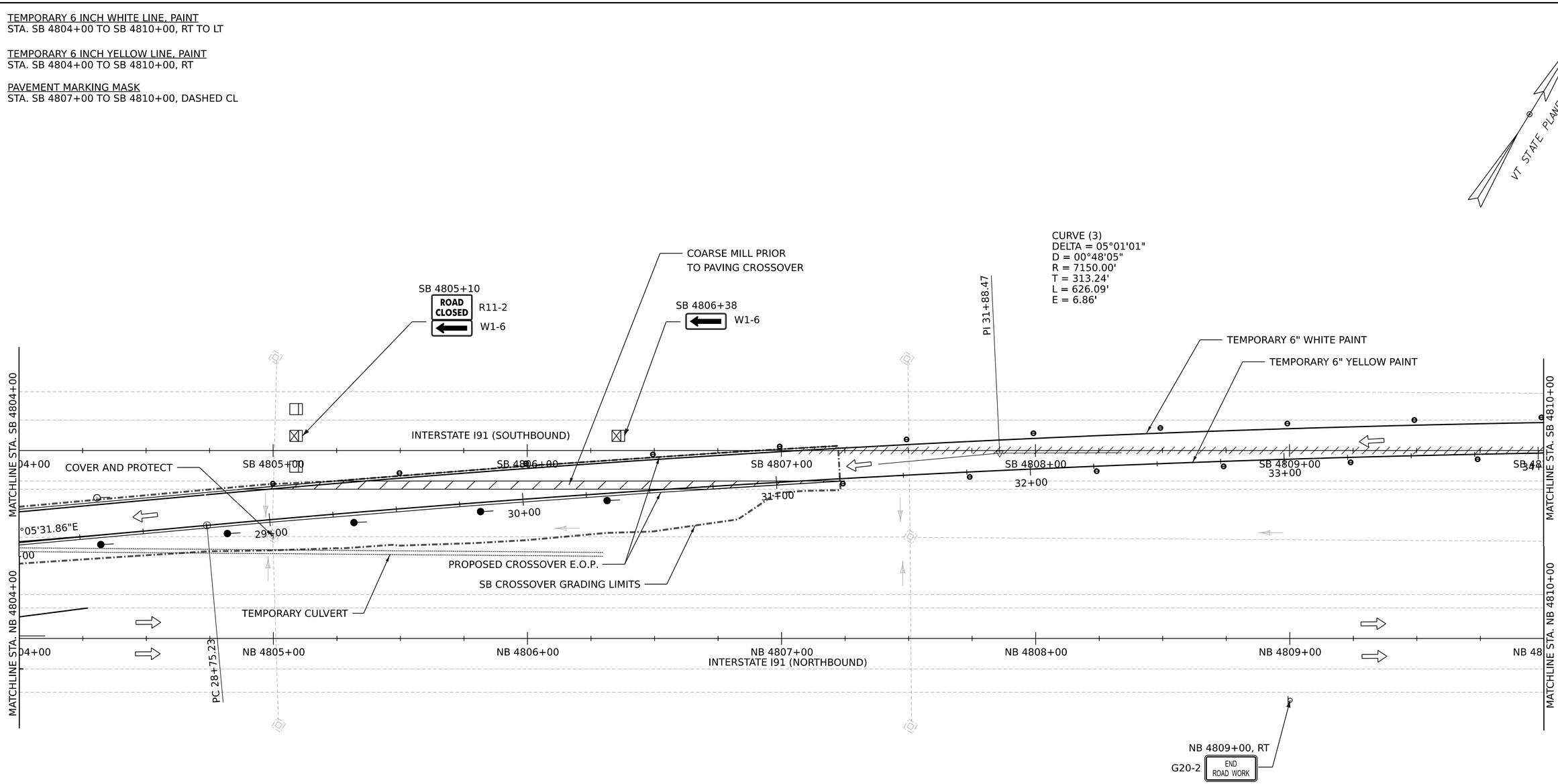
FILE NAME: z21a024bdr_tcp_SB.dgn
PROJECT LEADER: J. GRIGAS
DESIGNED BY: G. BURGMEIER
CROSSOVER SB PLAN SHEET 6

PLOT DATE: 3-APR-2024
DRAWN BY: D. DRAPER
CHECKED BY: I. MAYNARD
SHEET 41 OF 100

TEMPORARY 6 INCH WHITE LINE, PAINT
STA. SB 4804+00 TO SB 4810+00, RT TO LT

TEMPORARY 6 INCH YELLOW LINE, PAINT
STA. SB 4804+00 TO SB 4810+00, RT

PAVEMENT MARKING MASK
STA. SB 4807+00 TO SB 4810+00, DASHED CL



NOTES:

1. ALL EXISTING PAVEMENT MARKINGS, IN CONFLICT WITH TEMPORARY PAVEMENT MARKINGS, WILL BE REMOVED OR MASKED.

2. 12' TRAVEL LANES WITH MINIMUM 1' SHOULDERS.

0 20 40
SCALE IN FEET

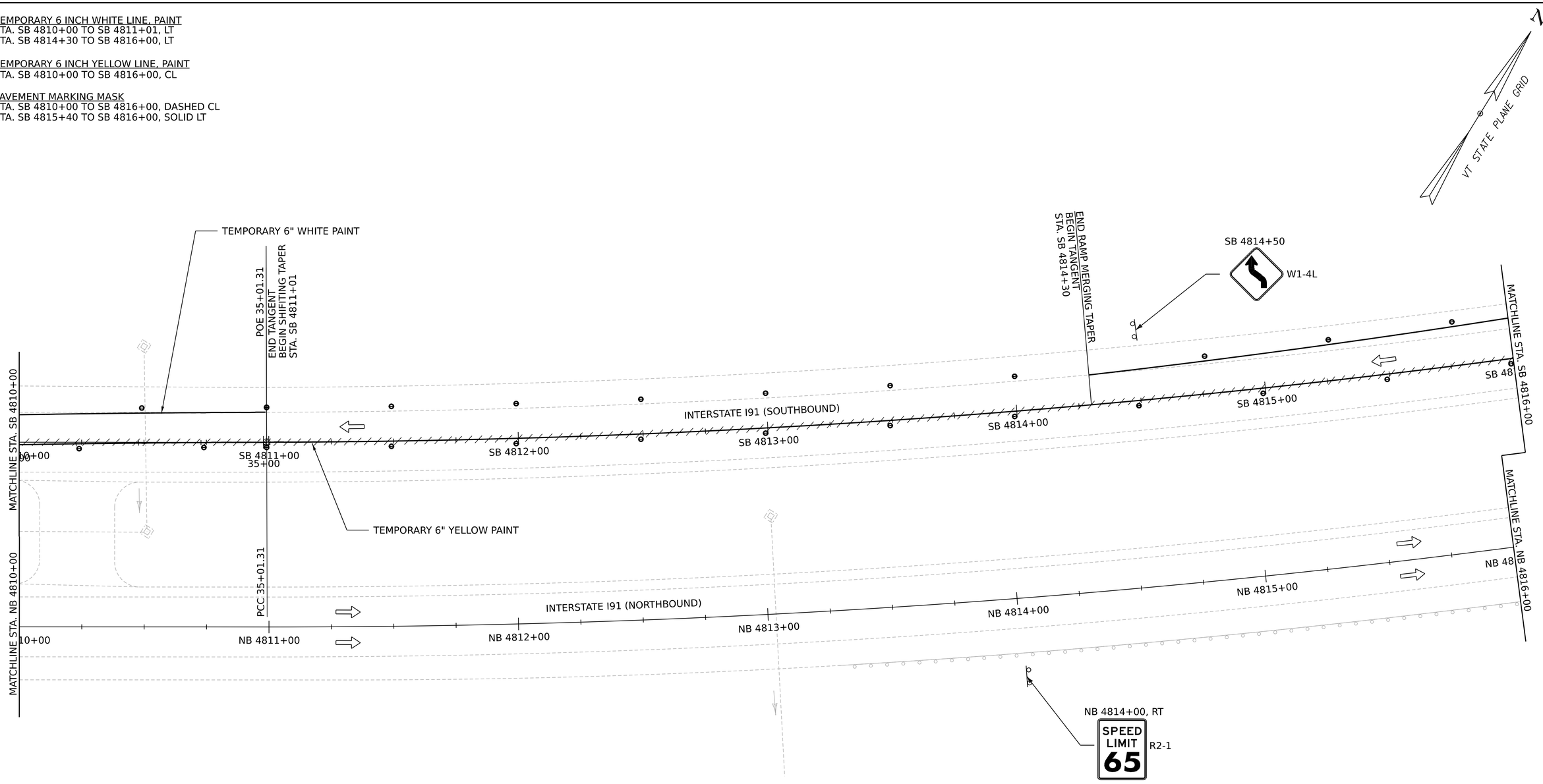
Stantec

PROJECT NAME:	FAIRLEE
PROJECT NUMBER:	IM 091-2(91)
FILE NAME: z21a024bdr_tcp_SB.dgn	PLOT DATE: 3-APR-2024
PROJECT LEADER: J. GRIGAS	DRAWN BY: D. DRAPER
DESIGNED BY: G. BURGMEIER	CHECKED BY: I. MAYNARD
CROSSOVER SB PLAN SHEET 7	SHEET 42 OF 100

TEMPORARY 6 INCH WHITE LINE, PAINT
STA. SB 4810+00 TO SB 4811+01, LT
STA. SB 4814+30 TO SB 4816+00, LT

TEMPORARY 6 INCH YELLOW LINE, PAINT
STA. SB 4810+00 TO SB 4816+00, CL

PAVEMENT MARKING MASK
STA. SB 4810+00 TO SB 4816+00, DASHED CL
STA. SB 4815+40 TO SB 4816+00, SOLID LT



NOTES:

1. ALL EXISTING PAVEMENT MARKINGS, IN CONFLICT WITH TEMPORARY PAVEMENT MARKINGS, WILL BE REMOVED OR MASKED.

2. 12' TRAVEL LANES WITH MINIMUM 1' SHOULDERS.

0 20 40
SCALE IN FEET

Stantec

PROJECT NAME: FAIRLEE
PROJECT NUMBER: IM 091-2(91)

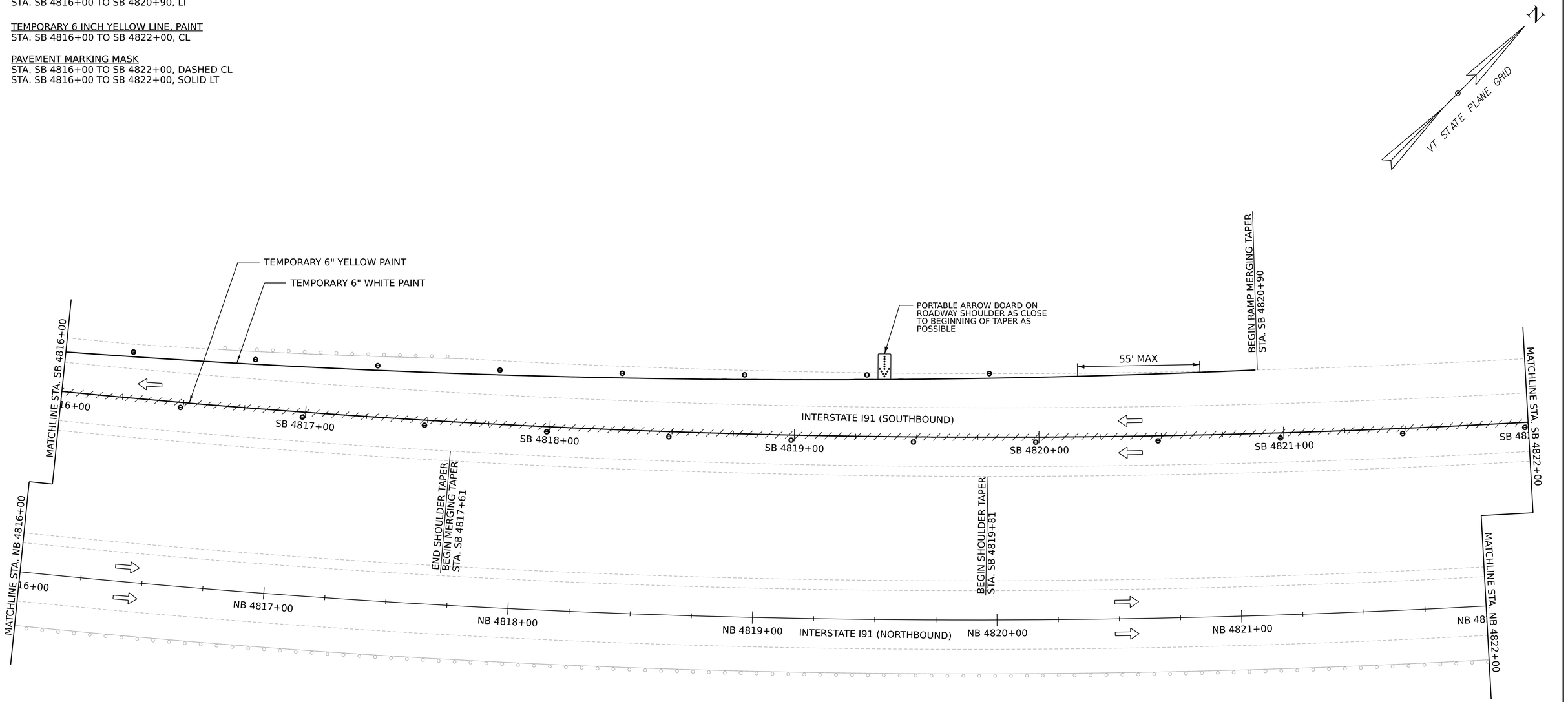
FILE NAME: z21a024bdr_tcp_SB.dgn
PROJECT LEADER: J. GRIGAS
DESIGNED BY: G. BURGMEIER
CROSSOVER SB PLAN SHEET 8

PLOT DATE: 3-APR-2024
DRAWN BY: D. DRAPER
CHECKED BY: I. MAYNARD
SHEET 43 OF 100

TEMPORARY 6 INCH WHITE LINE, PAINT
STA. SB 4816+00 TO SB 4820+90, LT

TEMPORARY 6 INCH YELLOW LINE, PAINT
STA. SB 4816+00 TO SB 4822+00, CL

PAVEMENT MARKING MASK
STA. SB 4816+00 TO SB 4822+00, DASHED CL
STA. SB 4816+00 TO SB 4822+00, SOLID LT



NOTES:

1. ALL EXISTING PAVEMENT MARKINGS, IN CONFLICT WITH TEMPORARY PAVEMENT MARKINGS, WILL BE REMOVED OR MASKED.

2. 12' TRAVEL LANES WITH MINIMUM 1' SHOULDERS.

0 20 40
SCALE IN FEET

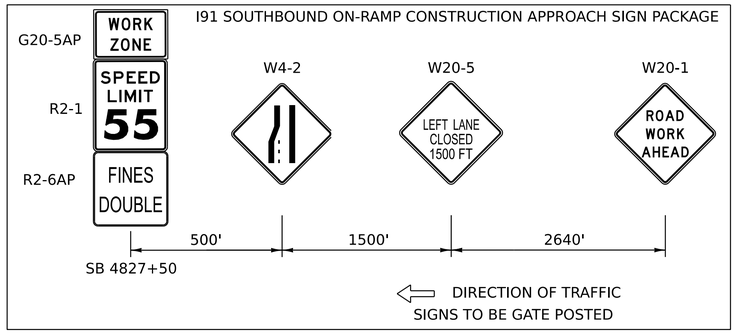
Stantec

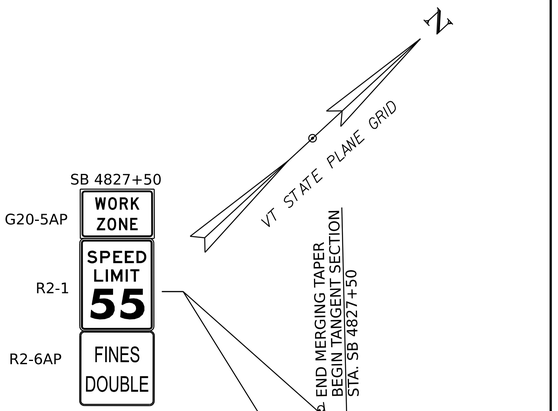
PROJECT NAME:	FAIRLEE
PROJECT NUMBER:	IM 091-2(91)
FILE NAME: z21a024bdr_tcp_SB.dgn	PLOT DATE: 3-APR-2024
PROJECT LEADER: J. GRIGAS	DRAWN BY: D. DRAPER
DESIGNED BY: G. BURGMEIER	CHECKED BY: I. MAYNARD
CROSSOVER SB PLAN SHEET 9	SHEET 44 OF 100

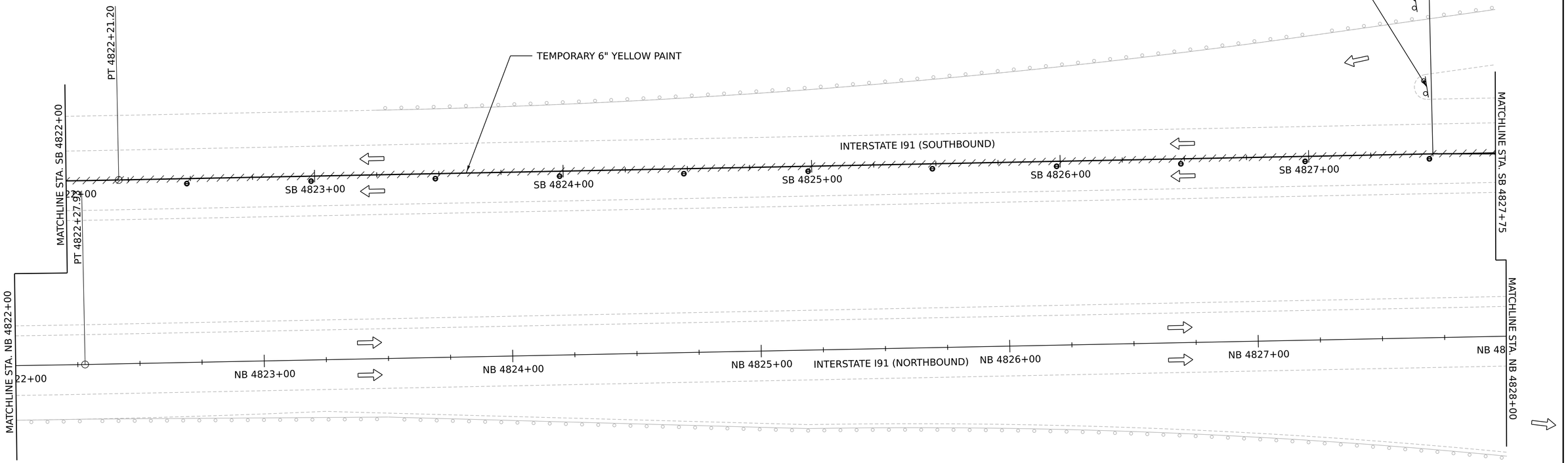
TEMPORARY 6 INCH WHITE LINE, PAINT
STA. SB 4822+00 TO SB 4822+21, LT

TEMPORARY 6 INCH YELLOW LINE, PAINT
STA. SB 4822+00 TO SB 4828+00, CL

PAVEMENT MARKING MASK
STA. SB 4822+00 TO SB 4827+25, DASHED CL







NOTES:

1. ALL EXISTING PAVEMENT MARKINGS, IN CONFLICT WITH TEMPORARY PAVEMENT MARKINGS, WILL BE REMOVED OR MASKED.

2. 12' TRAVEL LANES WITH MINIMUM 1' SHOULDERS.

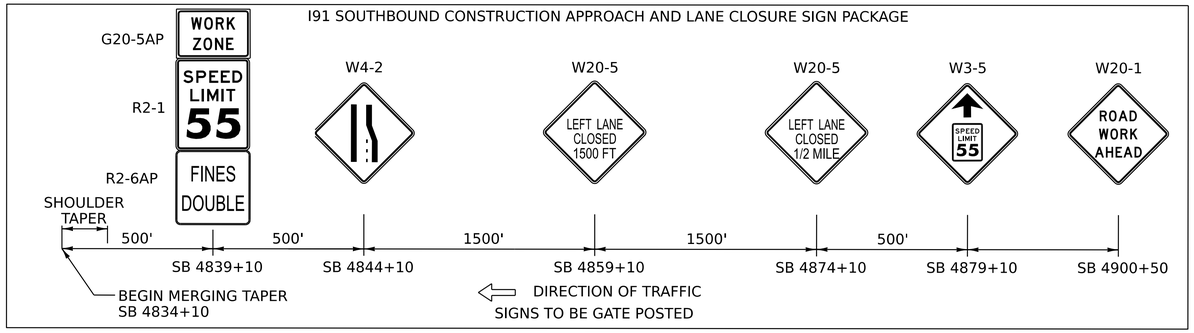
0 20 40
SCALE IN FEET

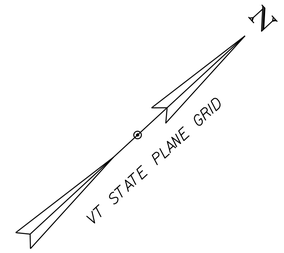
Stantec

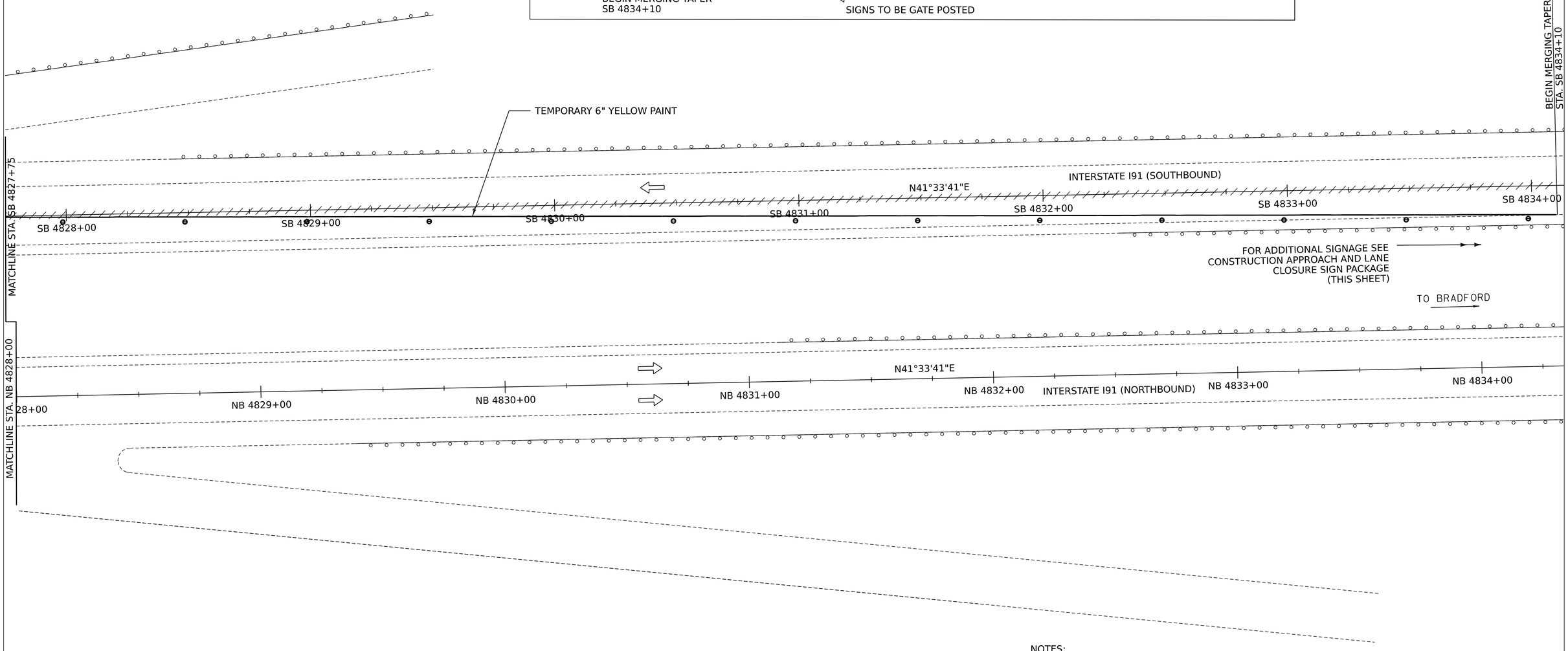
PROJECT NAME:	FAIRLEE
PROJECT NUMBER:	IM 091-2(91)
FILE NAME: z21a024bdr_tcp_SB.dgn	PLOT DATE: 3-APR-2024
PROJECT LEADER: J. GRIGAS	DRAWN BY: D. DRAPER
DESIGNED BY: G. BURGMEIER	CHECKED BY: I. MAYNARD
CROSSOVER SB PLAN SHEET 10	SHEET 45 OF 100

TEMPORARY 6 INCH YELLOW LINE, PAINT
STA. SB 4827+25 TO SB 4834+10, RT

PAVEMENT MARKING MASK
STA. SB 4827+25 TO SB 4834+10, SOLID RT







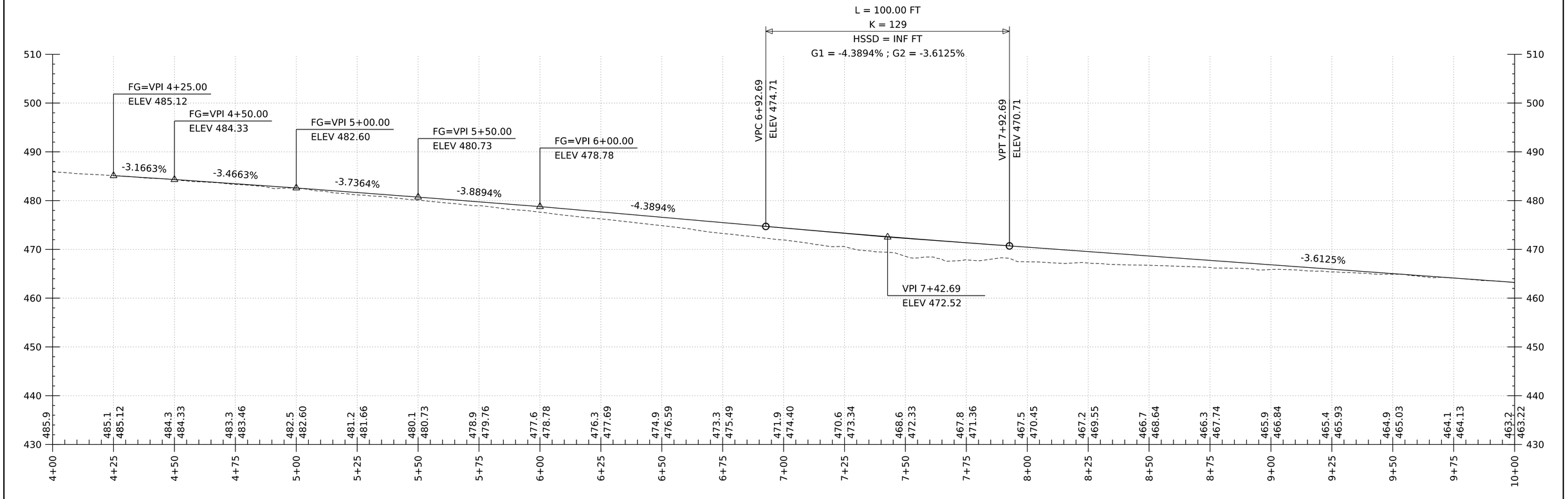
NOTES:

1. ALL EXISTING PAVEMENT MARKINGS, IN CONFLICT WITH TEMPORARY PAVEMENT MARKINGS, WILL BE REMOVED OR MASKED.

2. 12' TRAVEL LANES WITH MINIMUM 1' SHOULDERS.

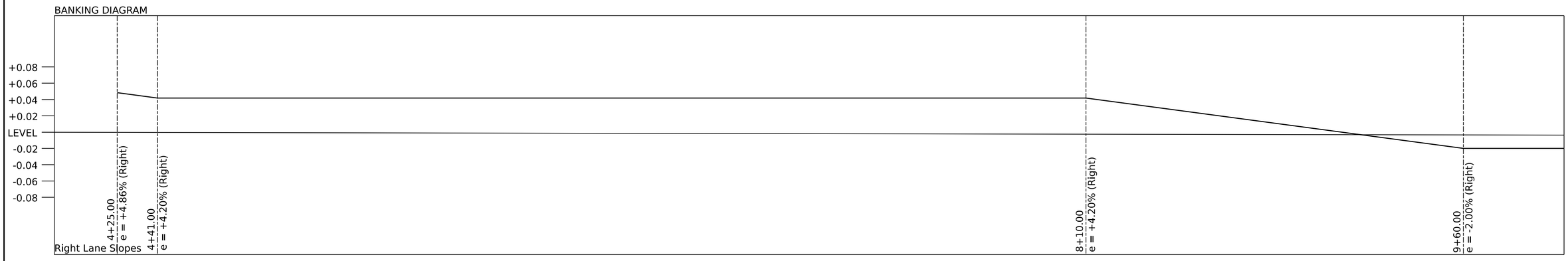
Stantec

PROJECT NAME:	FAIRLEE
PROJECT NUMBER:	IM 091-2(91)
FILE NAME: z21a024bdr_tcp_SB.dgn	PLOT DATE: 3-APR-2024
PROJECT LEADER: J. GRIGAS	DRAWN BY:
DESIGNED BY: G. BURGMEIER	CHECKED BY:
CROSSOVER SB PLAN SHEET 11	SHEET 46 OF 100



I-91 SOUTHBOUND CROSSOVER PROFILE

HORZONTAL SCALE: 1" = 40' VERTICAL SCALE 1" = 20'



I-91 SOUTHBOUND CROSSOVER PROPOSED BANKING DIAGRAM

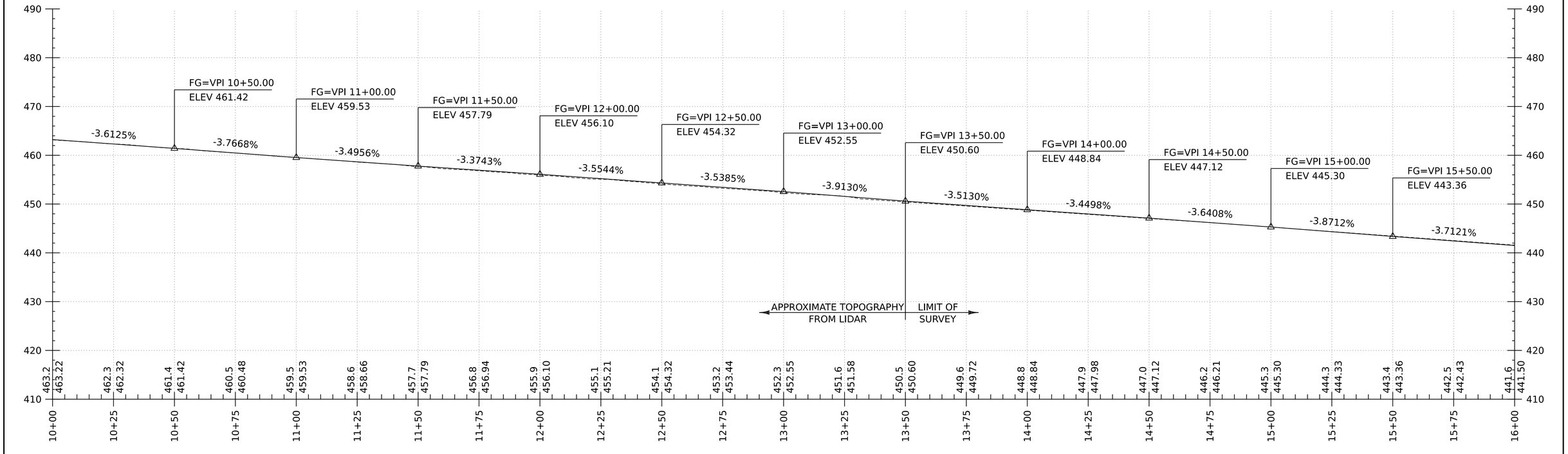
HORZONTAL SCALE: 1" = 40' VERTICAL SCALE 1" = 20'

GRADES SHOWN TO THE NEAREST TENTH ARE EXISTING GROUND

GRADES SHOWN TO THE NEAREST JUNDRETH ARE FINISHED GRADE

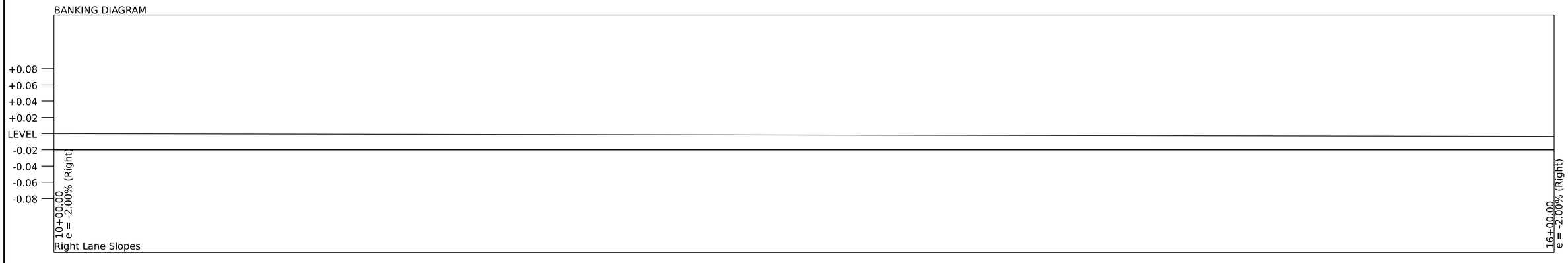
Stantec

PROJECT NAME:	FAIRLEE
PROJECT NUMBER:	IM 091-2(91)
FILE NAME: z21a024_alg_I91_SB_crossover.dgn	PLOT DATE: 3-APR-2024
PROJECT LEADER: J. GRIGAS	DRAWN BY: G. BURGMEIER
DESIGNED BY: G. BURGMEIER	CHECKED BY: I. MAYNARD
I91 SB CROSSOVER PROFILE SHEET 1	SHEET 47 OF 100



I-91 SOUTHBOUND CROSSOVER PROFILE

HORZONTAL SCALE: 1" = 40' VERTICAL SCALE 1" = 20'



I-91 SOUTHBOUND CROSSOVER PROPOSED BANKING DIAGRAM

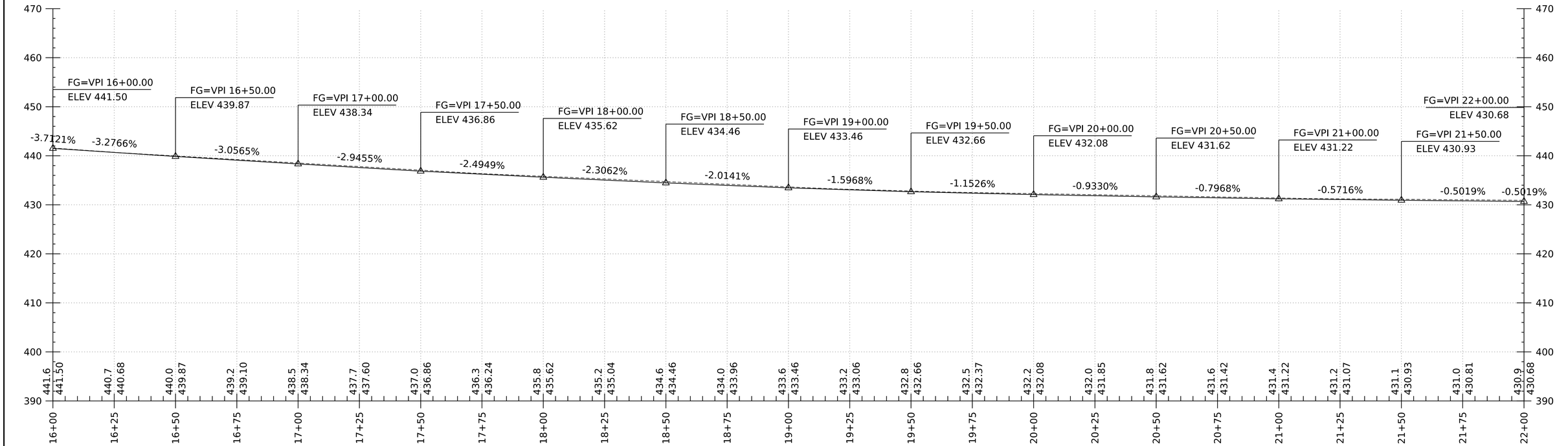
HORZONTAL SCALE: 1" = 40' VERTICAL SCALE 1" = 20'

GRADES SHOWN TO THE NEAREST TENTH ARE EXISTING GROUND

GRADES SHOWN TO THE NEAREST JUNDRETH ARE FINISHED GRADE

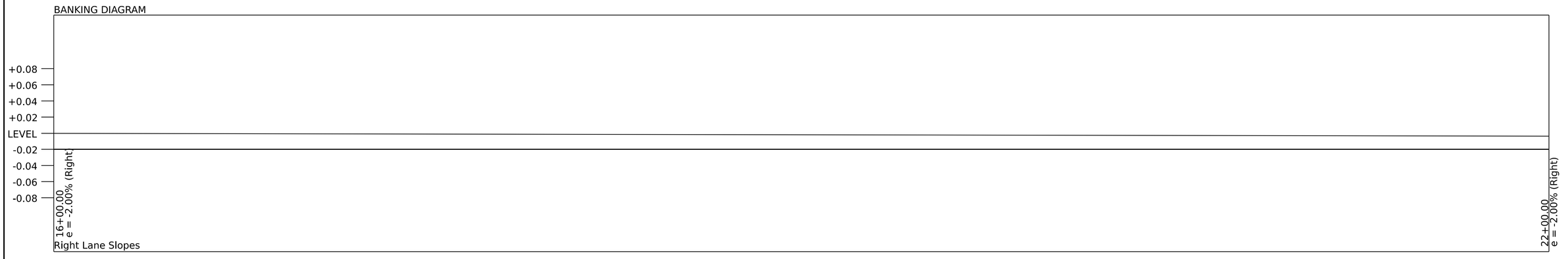
Stantec

PROJECT NAME:	FAIRLEE		
PROJECT NUMBER:	IM 091-2(91)		
FILE NAME:	z21a024_alg_I91_SB_crossover.dgn	PLOT DATE:	3-APR-2024
PROJECT LEADER:	J.GRIGAS	DRAWN BY:	G. BURGMEIER
DESIGNED BY:	G. BURGMEIER	CHECKED BY:	I. MAYNARD
I91 SB CROSSOVER PROFILE SHEET 2		SHEET	48 OF 100



I-91 SOUTHBOUND CROSSOVER PROFILE

HORZONTAL SCALE: 1" = 40' VERTICAL SCALE 1" = 20'



I-91 SOUTHBOUND CROSSOVER PROPOSED BANKING DIAGRAM

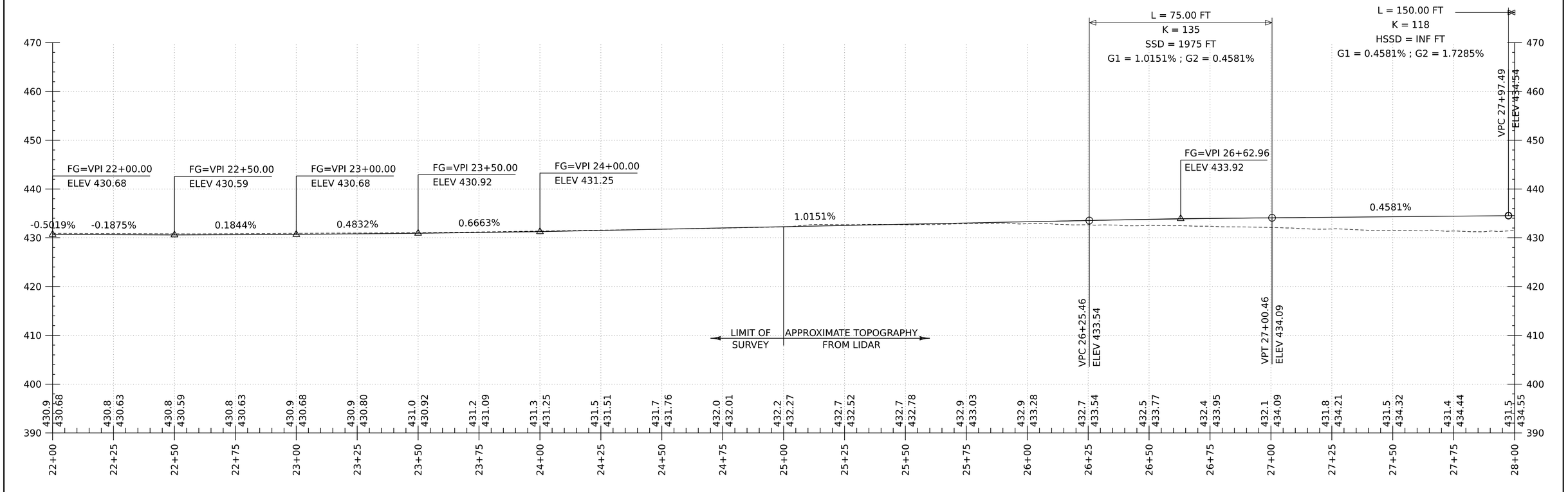
HORZONTAL SCALE: 1" = 40' VERTICAL SCALE 1" = 20'

GRADES SHOWN TO THE NEAREST TENTH ARE EXISTING GROUND

GRADES SHOWN TO THE NEAREST JUNDRETH ARE FINISHED GRADE

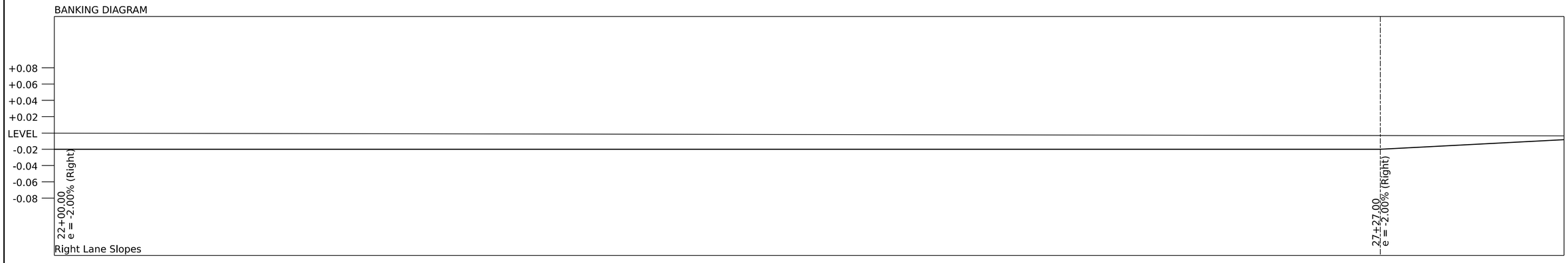
Stantec

PROJECT NAME:	FAIRLEE
PROJECT NUMBER:	IM 091-2(91)
FILE NAME: z21a024_alg_I91_SB_crossover.dgn	PLOT DATE: 3-APR-2024
PROJECT LEADER: J. GRIGAS	DRAWN BY: G. BURGMEIER
DESIGNED BY: G.BURGMEIER	CHECKED BY: I. MAYNARD
I91 SB CROSSOVER PROFILE SHEET 3	SHEET 49 OF 100



I-91 SOUTHBOUND CROSSOVER PROFILE

HORZONTAL SCALE: 1" = 40' VERTICAL SCALE 1" = 20'



I-91 SOUTHBOUND CROSSOVER PROPOSED BANKING DIAGRAM

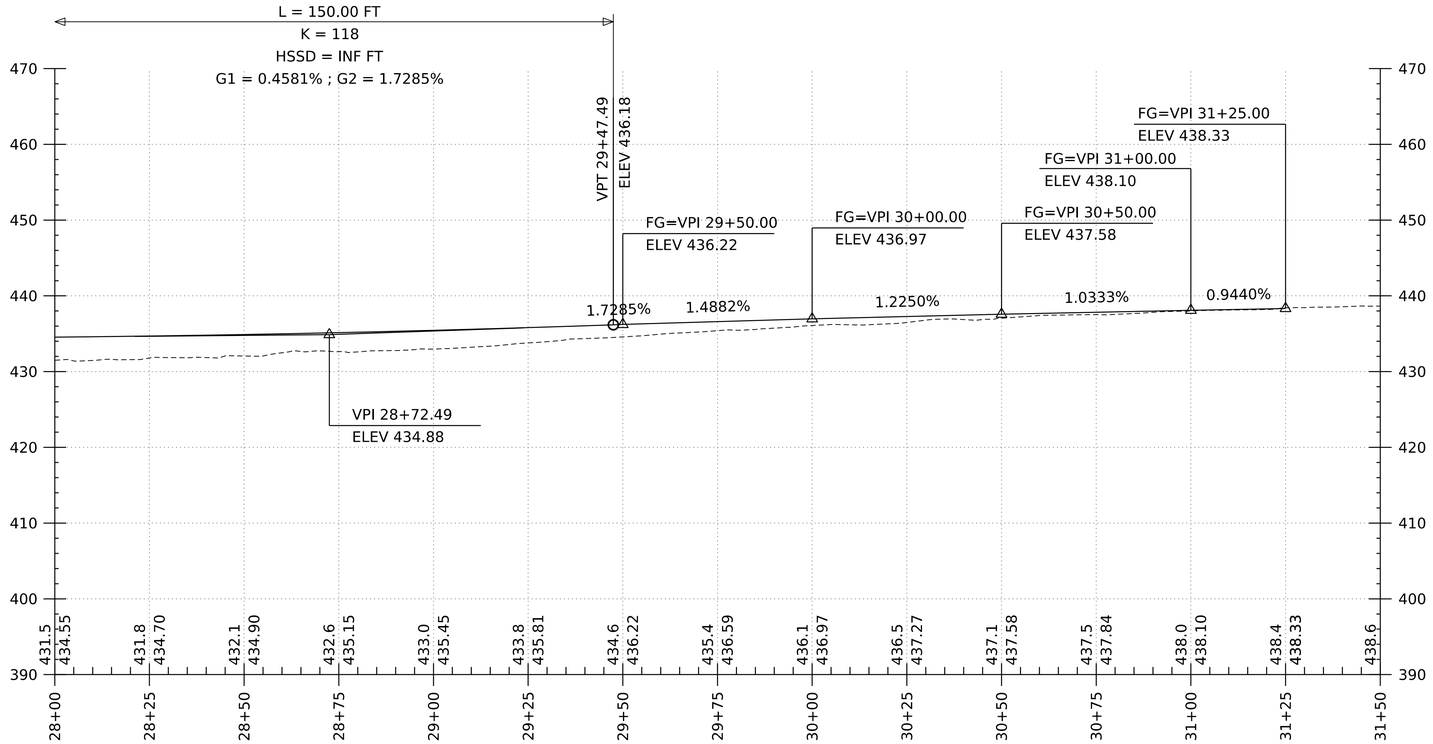
HORZONTAL SCALE: 1" = 40' VERTICAL SCALE 1" = 20'

GRADES SHOWN TO THE NEAREST TENTH ARE EXISTING GROUND

GRADES SHOWN TO THE NEAREST JUNDRETH ARE FINISHED GRADE

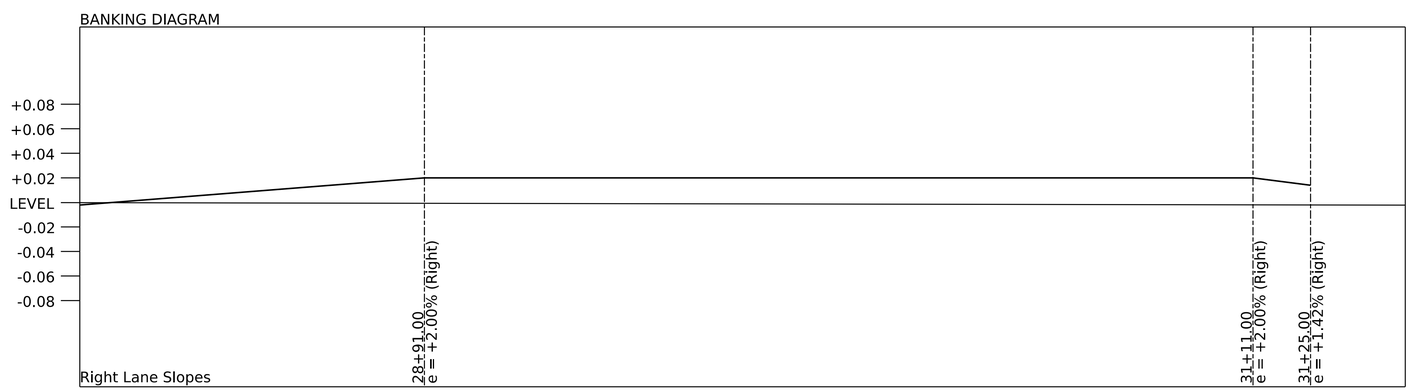
Stantec

PROJECT NAME:	FAIRLEE
PROJECT NUMBER:	IM 091-2(91)
FILE NAME: z21a024_alg_I91_SB_crossover.dgn	PLOT DATE: 3-APR-2024
PROJECT LEADER: J. GRIGAS	DRAWN BY: G. BURGMEIER
DESIGNED BY: G. BURGMEIER	CHECKED BY: I. MAYNARD
I91 SB CROSSOVER PROFILE SHEET 4	SHEET 50 OF 100



I-91 SOUTHBOUND CROSSOVER PROFILE

HORZONTAL SCALE: 1" = 40' VERTICAL SCALE 1" = 20'



I-91 SOUTHBOUND CROSSOVER PROPOSED BANKING DIAGRAM

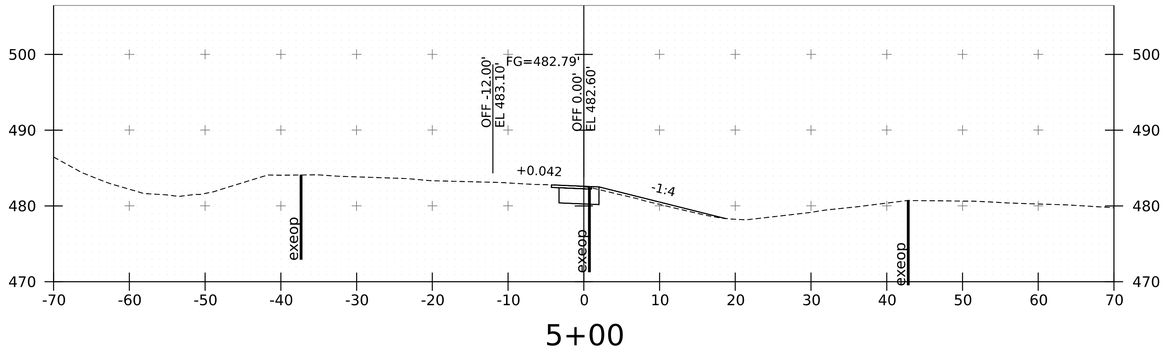
HORZONTAL SCALE: 1" = 40' VERTICAL SCALE 1" = 20'

GRADES SHOWN TO THE NEAREST TENTH ARE EXISTING GROUND

GRADES SHOWN TO THE NEAREST JUNDRETH ARE FINISHED GRADE

Stantec

PROJECT NAME:	FAIRLEE		
PROJECT NUMBER:	IM 091-2(91)		
FILE NAME:	z21a024_alg_I91_SB_crossover.dgn	PLOT DATE:	3-APR-2024
PROJECT LEADER:	J. GRIGAS	DRAWN BY:	G. BURGMEIER
DESIGNED BY:	G. BURGMEIER	CHECKED BY:	I. MAYNARD
I91 SB CROSSOVER PROFILE SHEET 5		SHEET	51 OF 100



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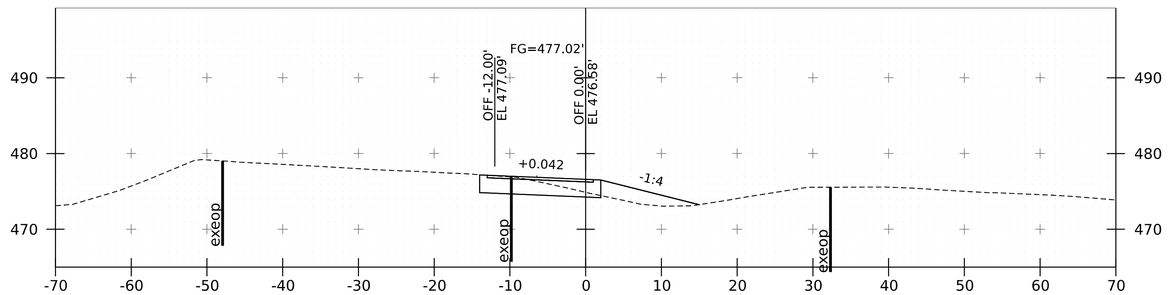

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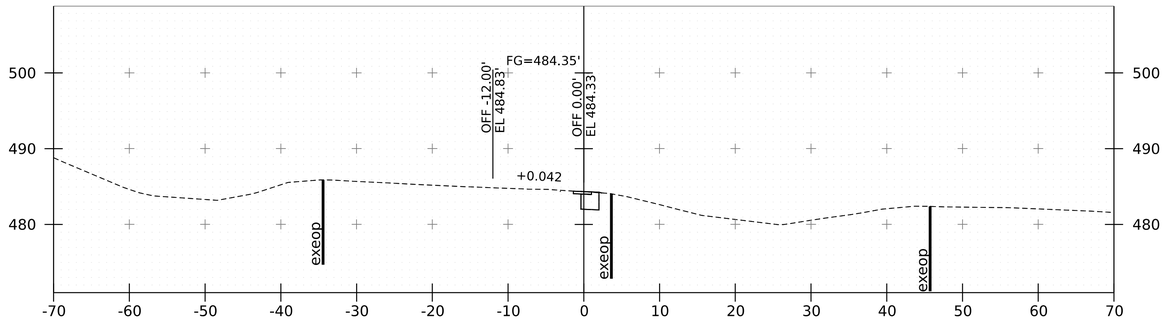

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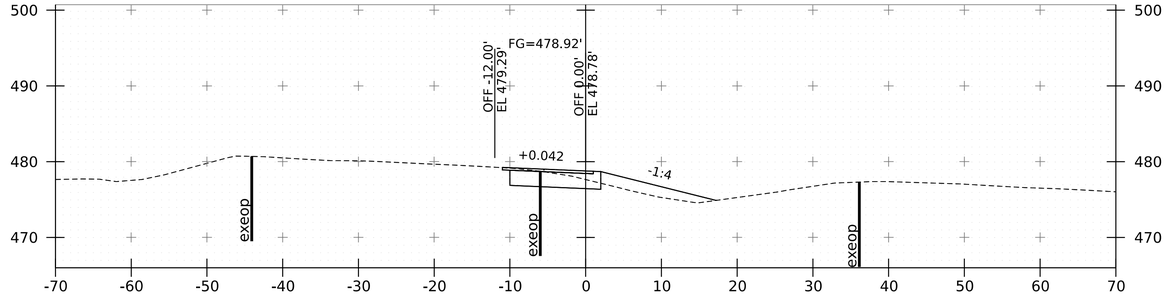

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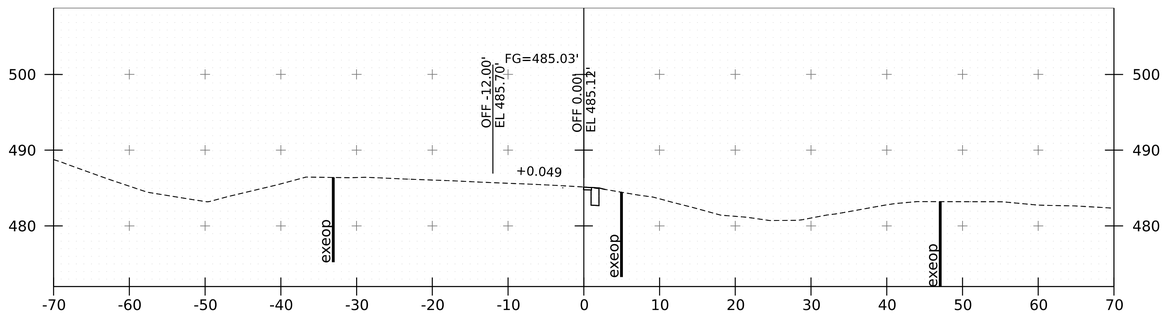
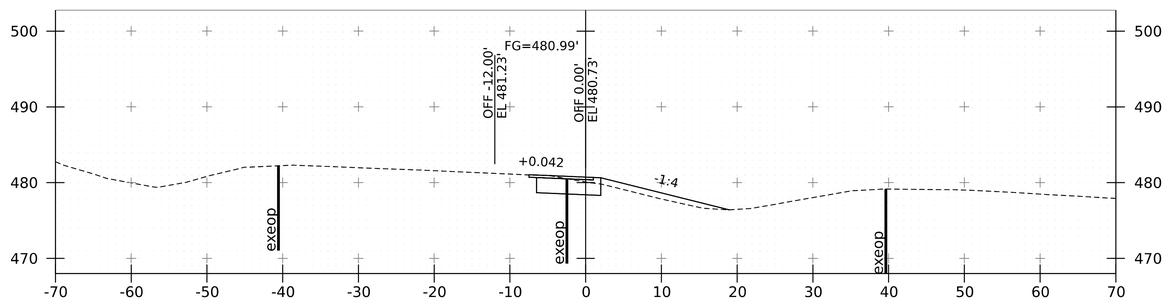


4+25

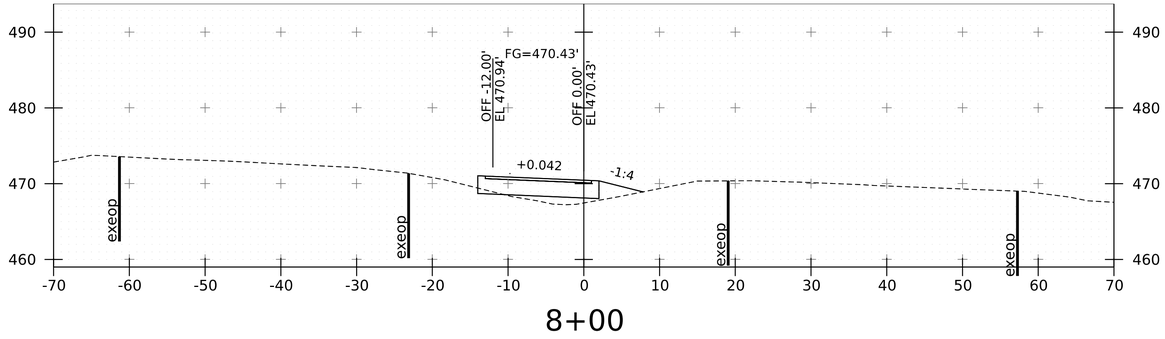


5+50

NOTE: LIDAR USED TO DEVELOP CROSSOVERS FROM STA. 4+25 - STA. 13+50

Stantec

PROJECT NAME:	FAIRLEE
PROJECT NUMBER:	IM 091-2(91)
FILE NAME: z21a024_xs_I91_SB_crossover.dgn	PLOT DATE: 3-APR-2024
PROJECT LEADER: J. GRIGAS	DRAWN BY: G. BURGMEIER
DESIGNED BY: G. BURGMEIER	CHECKED BY: I. MAYNARD
I91 SB CROSSOVER XS SHEET 1	SHEET 52 OF 100



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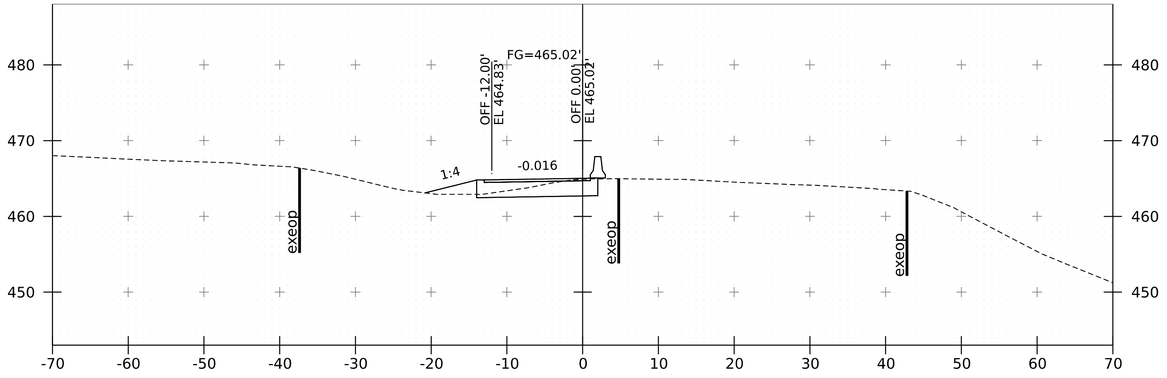

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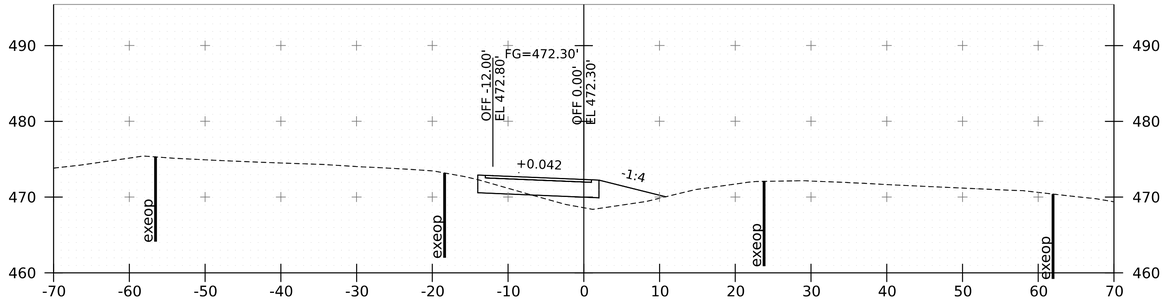
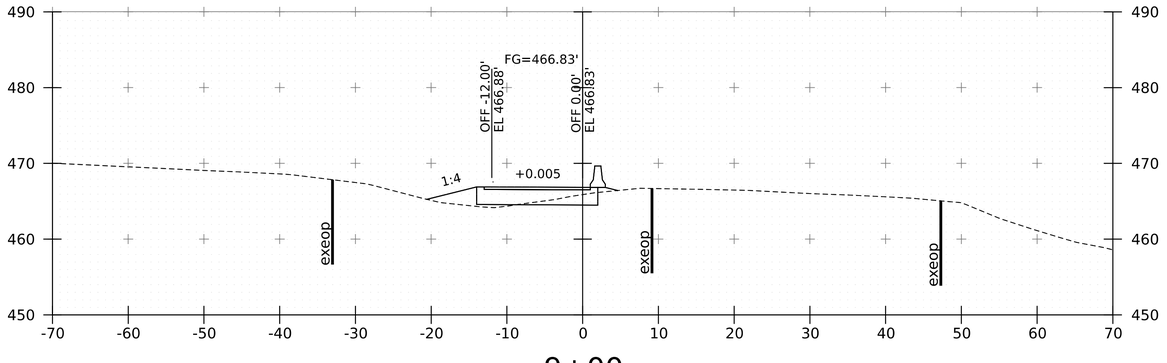


7+50



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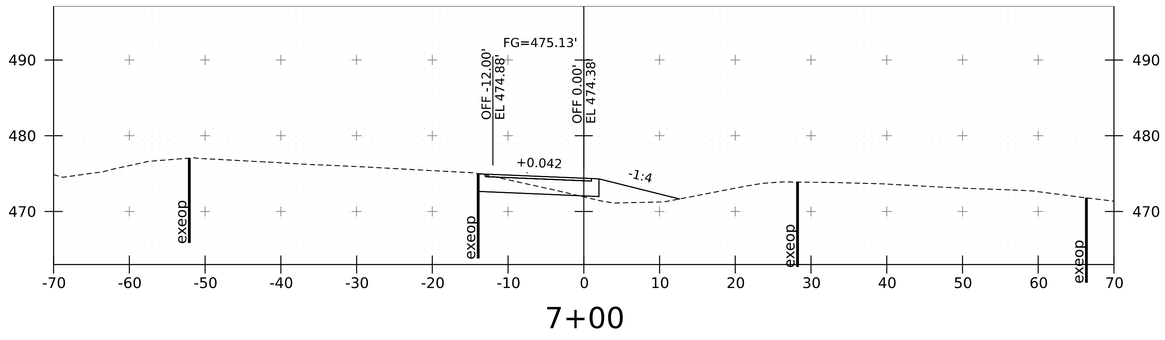

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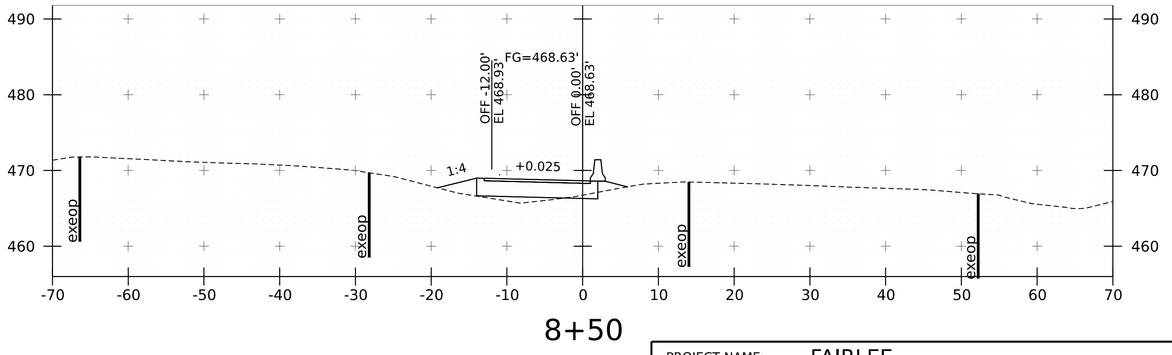
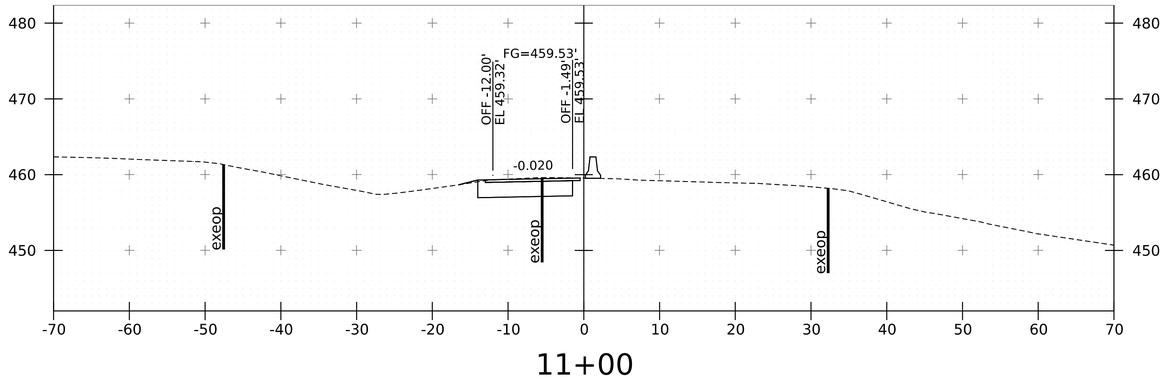


8+50

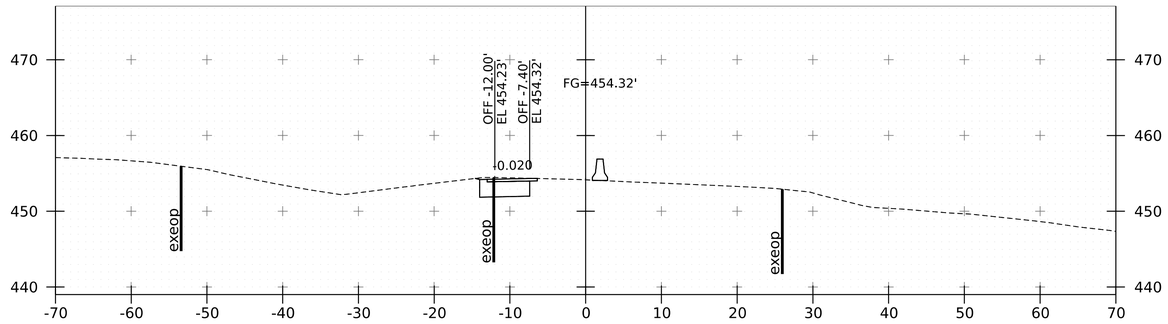
NOTE: LIDAR USED TO DEVELOP CROSSOVERS FROM STA. 4+25 - STA. 13+50

Stantec

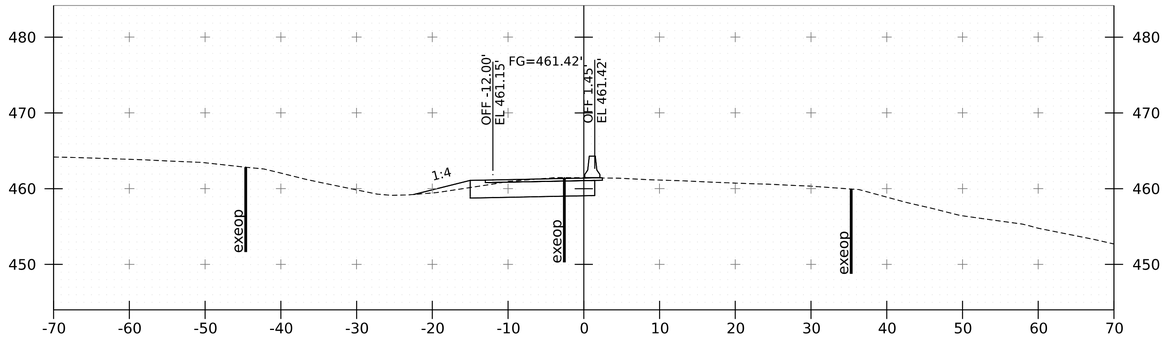
PROJECT NAME:	FAIRLEE
PROJECT NUMBER:	IM 091-2(91)
FILE NAME: z21a024_xs_I91_SB_crossover.dgn	PLOT DATE: 3-APR-2024
PROJECT LEADER: J. GRIGAS	DRAWN BY: G. BURGMEIER
DESIGNED BY: G. BURGMEIER	CHECKED BY: I. MAYNARD
I91 SB CROSSOVER XS SHEET 2	SHEET 53 OF 100



11+00



12+50



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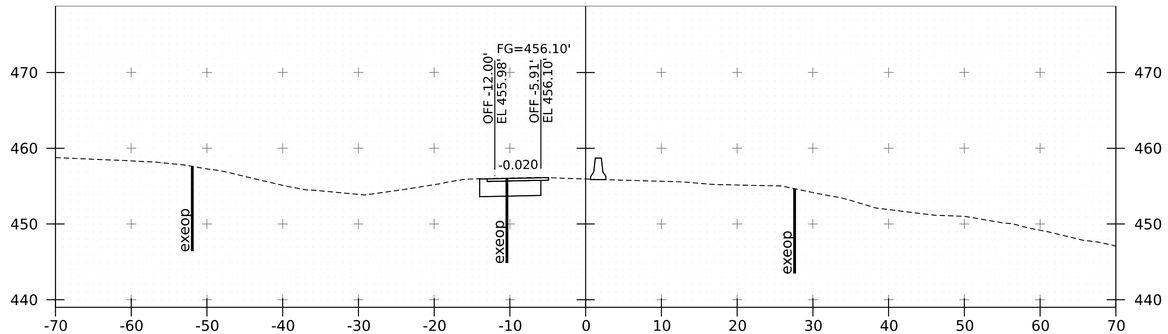

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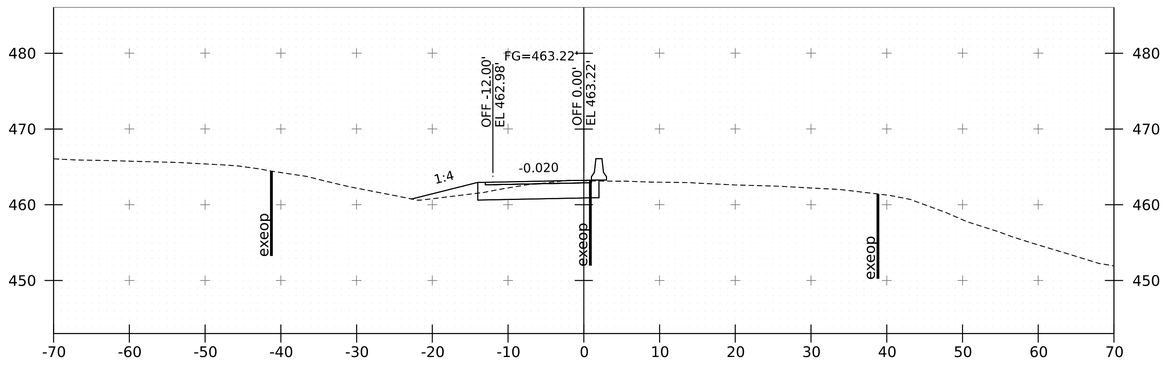

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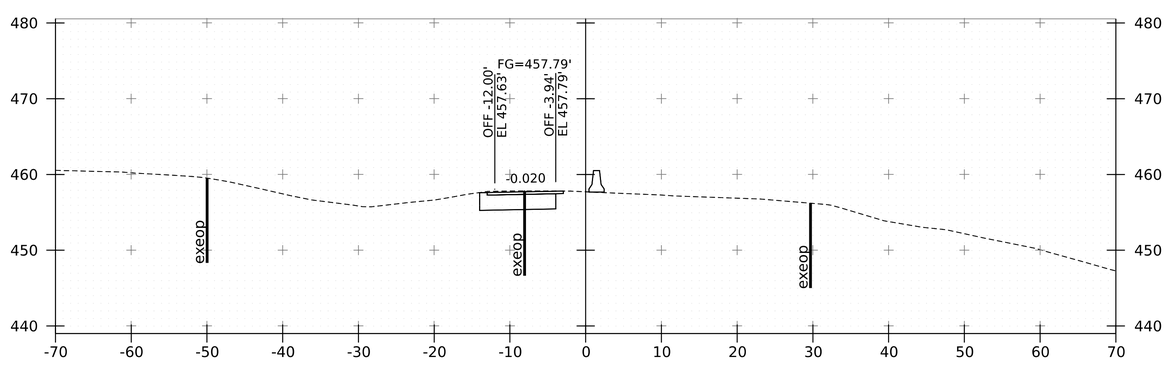
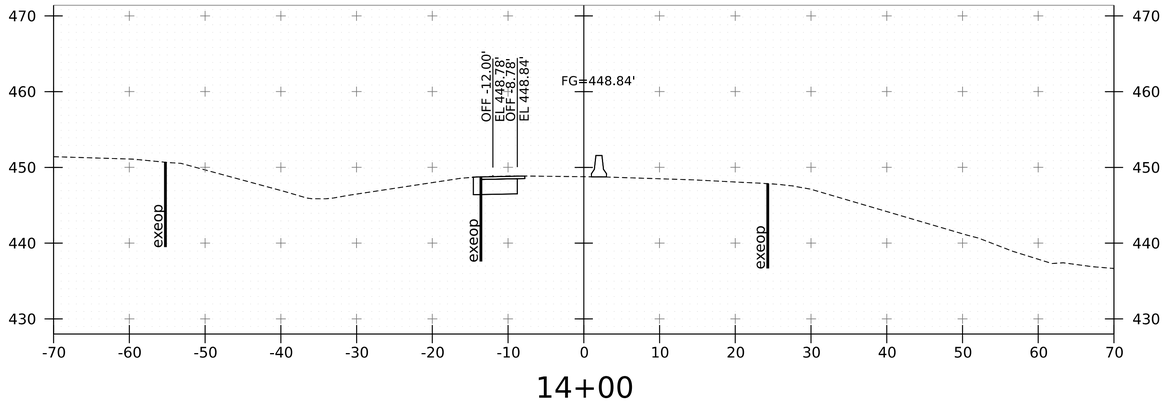


11+50

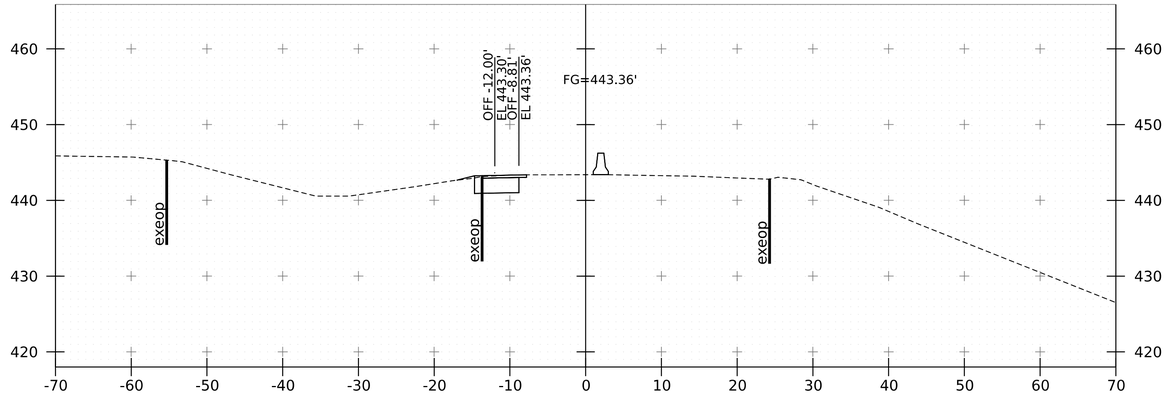
NOTE: LIDAR USED TO DEVELOP CROSSOVERS FROM STA. 4+25 - STA. 13+50

Stantec

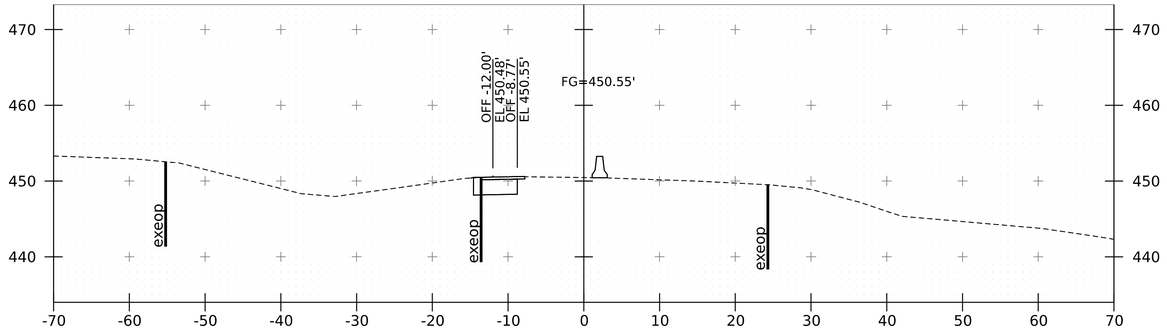
PROJECT NAME:	FAIRLEE
PROJECT NUMBER:	IM 091-2(91)
FILE NAME: z21a024_xs_I91_SB_crossover.dgn	PLOT DATE: 3-APR-2024
PROJECT LEADER: J. GRIGAS	DRAWN BY: G. BURGMEIER
DESIGNED BY: G. BURGMEIER	CHECKED BY: I. MAYNARD
I91 SB CROSSOVER XS SHEET 3	SHEET 54 OF 100



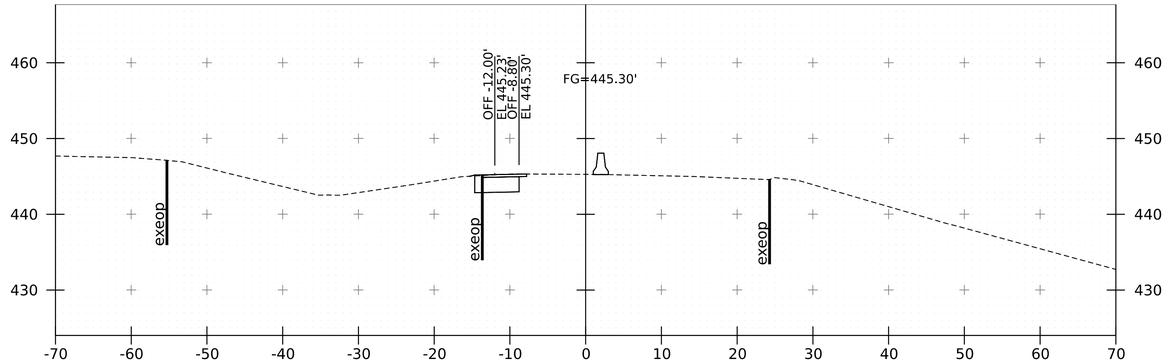
14+00



15+50



13+50



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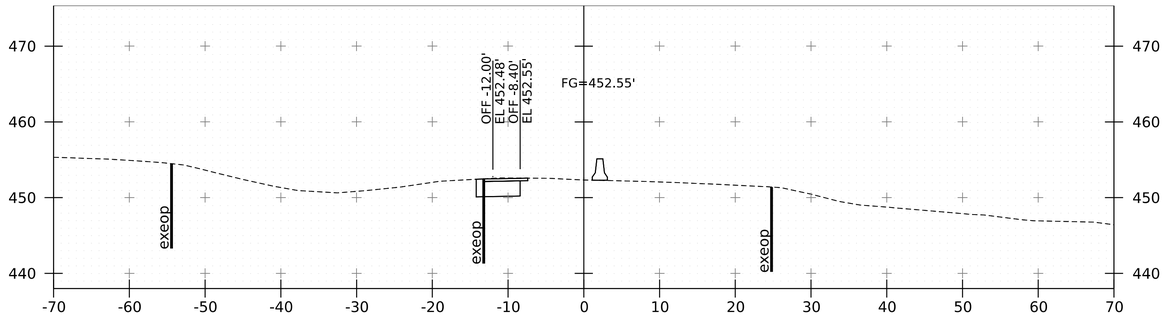
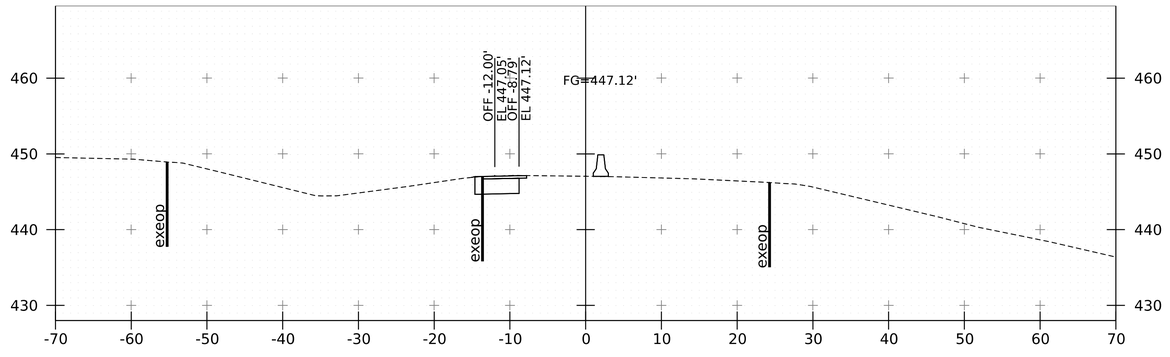


13+00

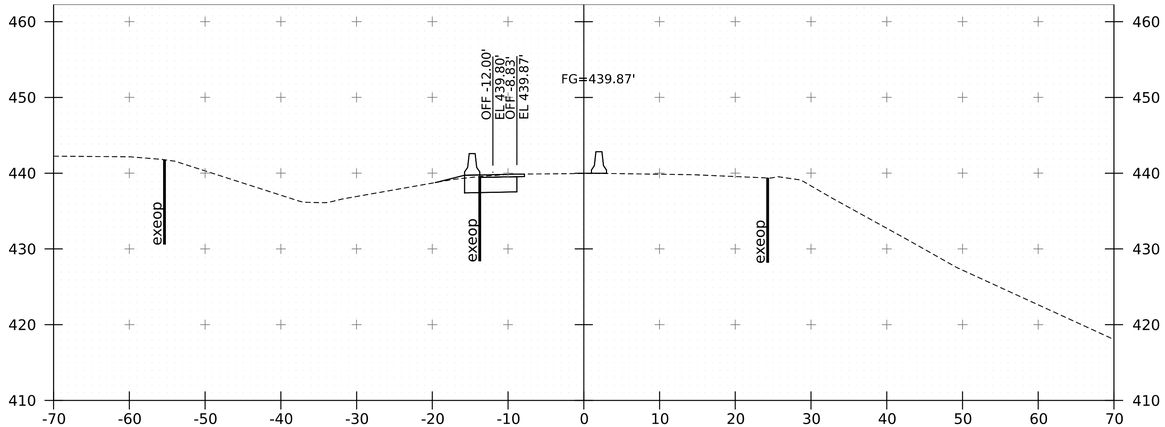


14+50

NOTE: LIDAR USED TO DEVELOP CROSSOVERS FROM STA. 4+25 - STA. 13+50

Stantec

PROJECT NAME:	FAIRLEE
PROJECT NUMBER:	IM 091-2(91)
FILE NAME: z21a024_xs_I91_SB_crossover.dgn	PLOT DATE: 3-APR-2024
PROJECT LEADER: J. GRIGAS	DRAWN BY: G. BURGMEIER
DESIGNED BY: G. BURMEIER	CHECKED BY: I. MAYNARD
I91 SB CROSSOVER XS SHEET 4	SHEET 55 OF 100



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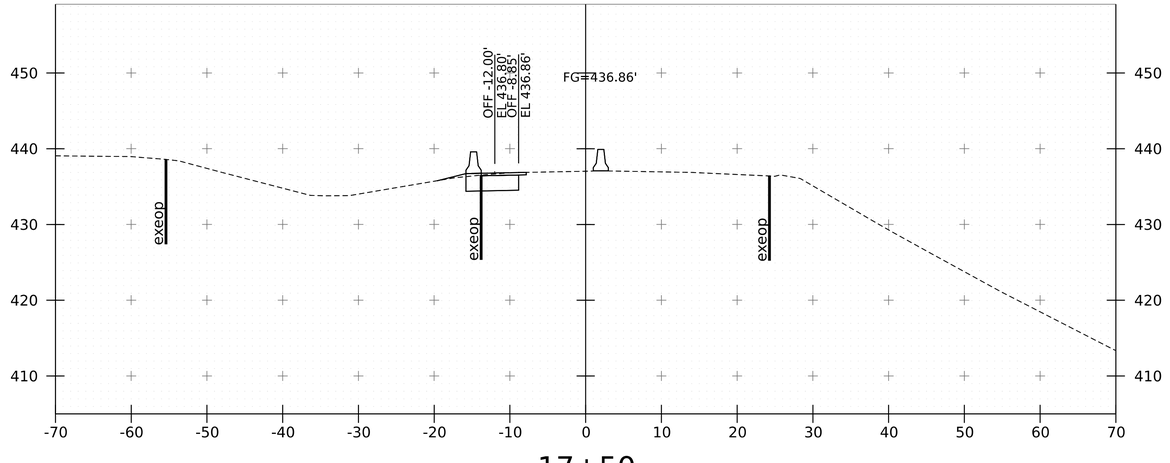
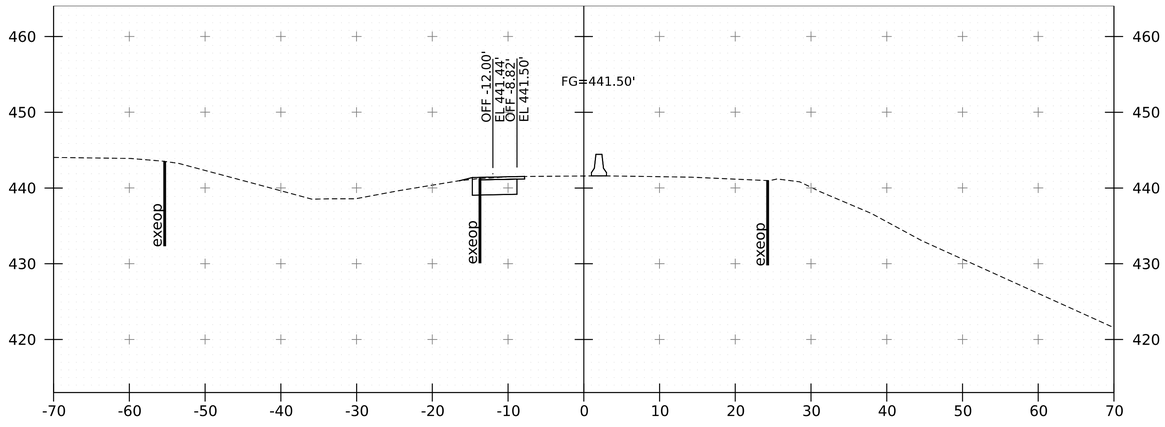


17+50



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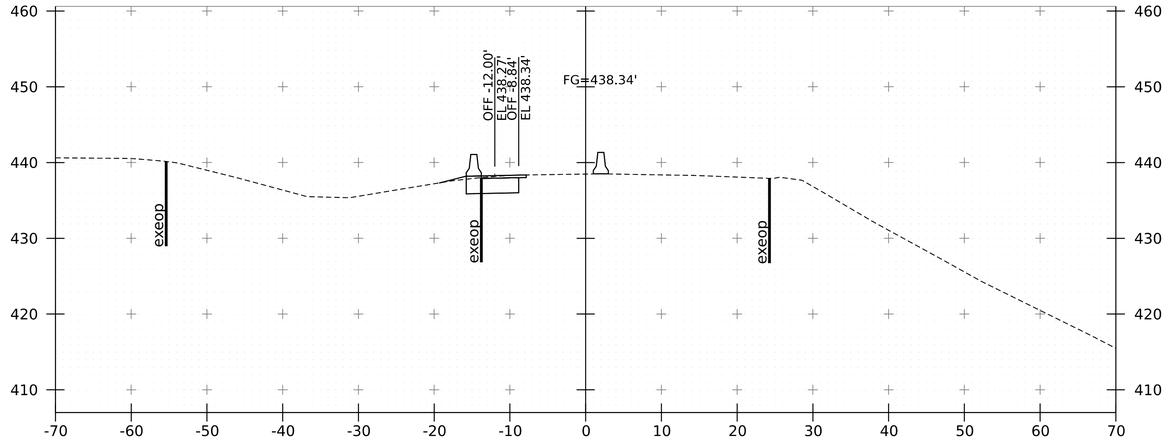
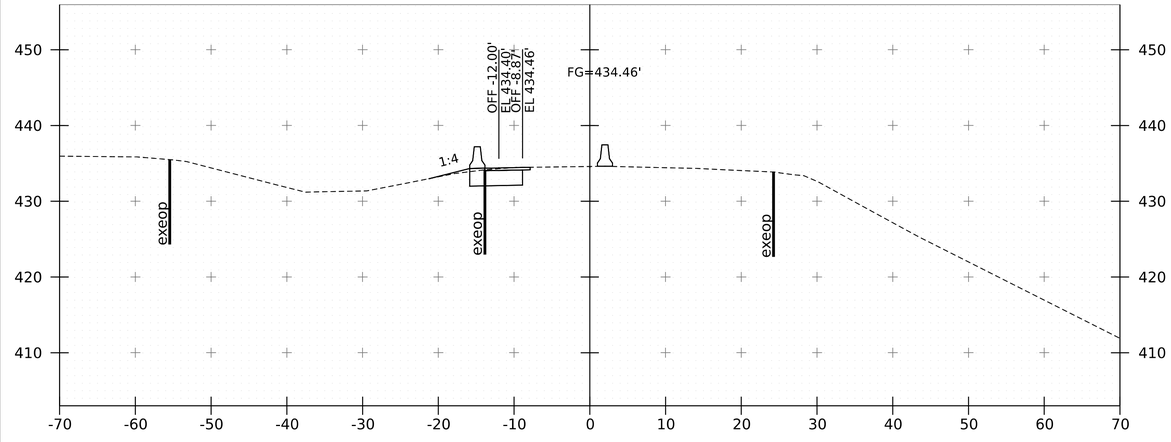


17+00

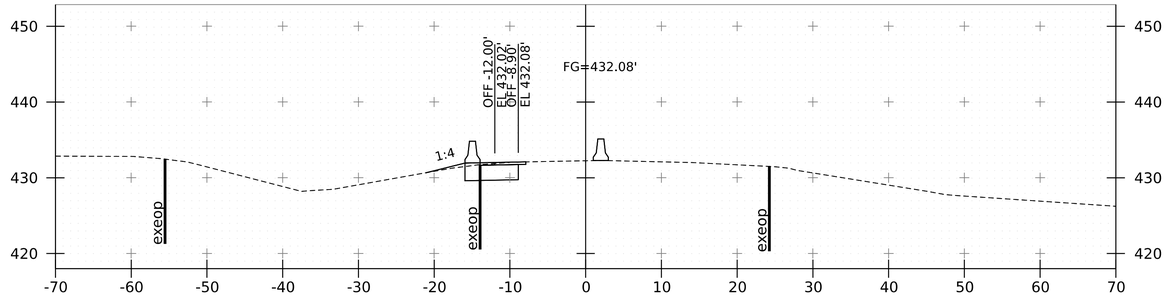
Stantec

PROJECT NAME:	FAIRLEE
PROJECT NUMBER:	IM 091-2(91)

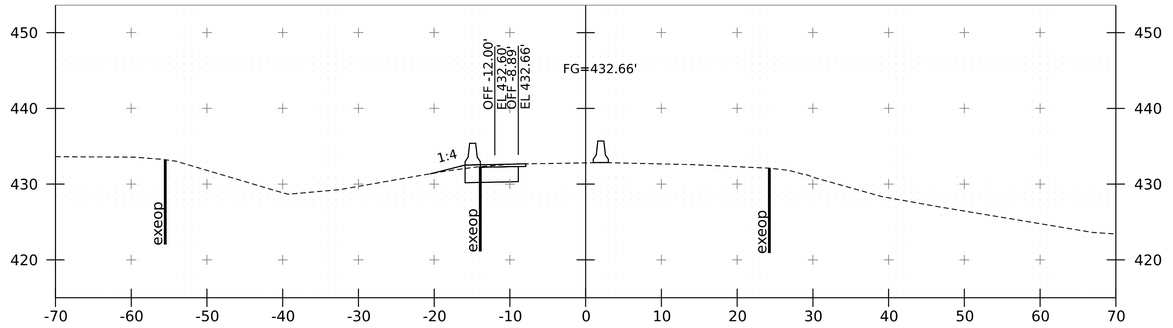
FILE NAME:	z21a024_xs_I91_SB_crossover.dgn	PLOT DATE:	3-APR-2024
PROJECT LEADER:	J. GRIGAS	DRAWN BY:	G. BURGMEIER
DESIGNED BY:	G. BURGMEIER	CHECKED BY:	I. MAYNARD
I91 SB CROSSOVER XS SHEET 5		SHEET	56 OF 100



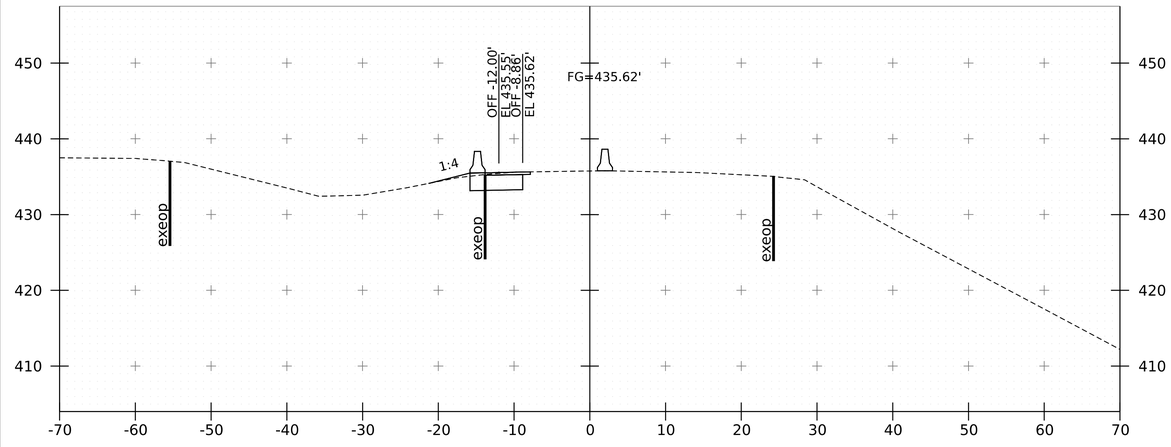
18+50



20+00



19+50



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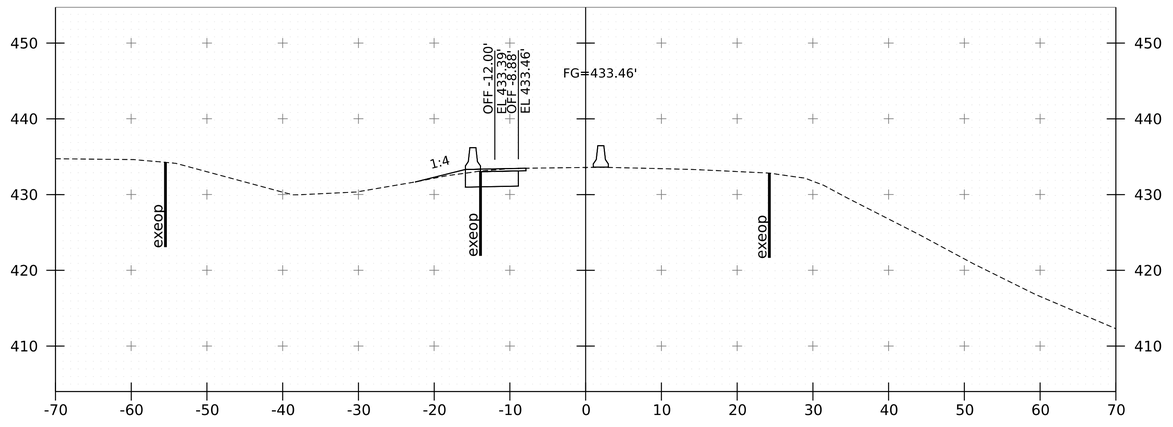
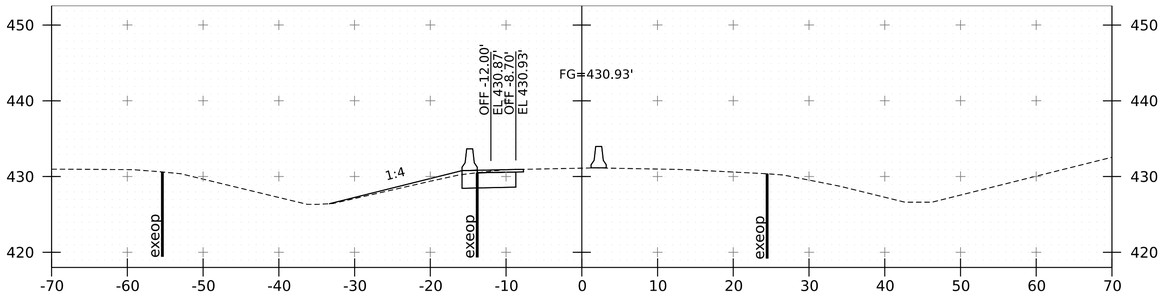


19+00

PROJECT NAME:	FAIRLEE
PROJECT NUMBER:	IM 091-2(91)

FILE NAME:	z21a024_xs_I91_SB_crossover.dgn	PLOT DATE:	3-APR-2024
PROJECT LEADER:	J. GRIGAS	DRAWN BY:	G. BURGMEIER
DESIGNED BY:	G. BURGMEIER	CHECKED BY:	I. MAYNARD
I91 SB CROSSOVER XS SHEET 6		SHEET	57 OF 100

Stantec



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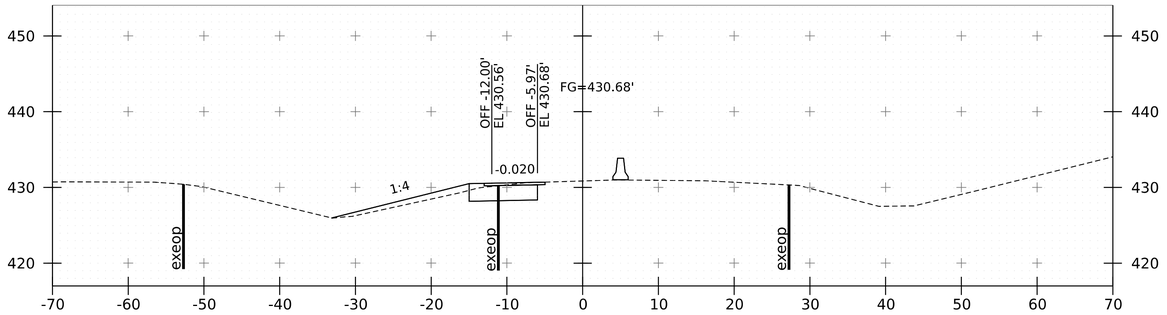
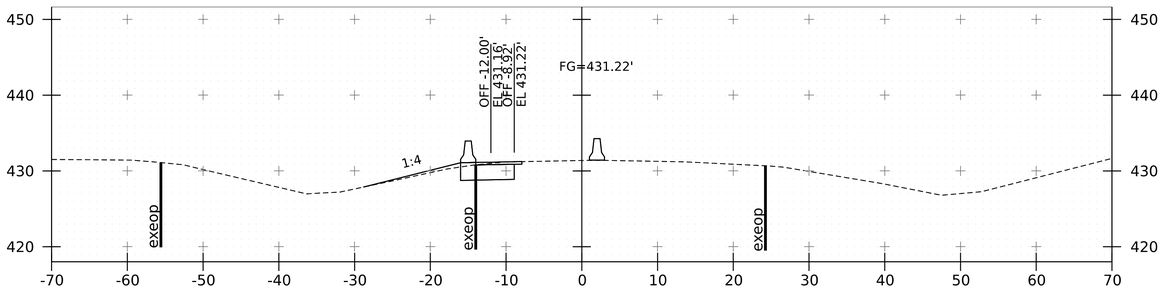
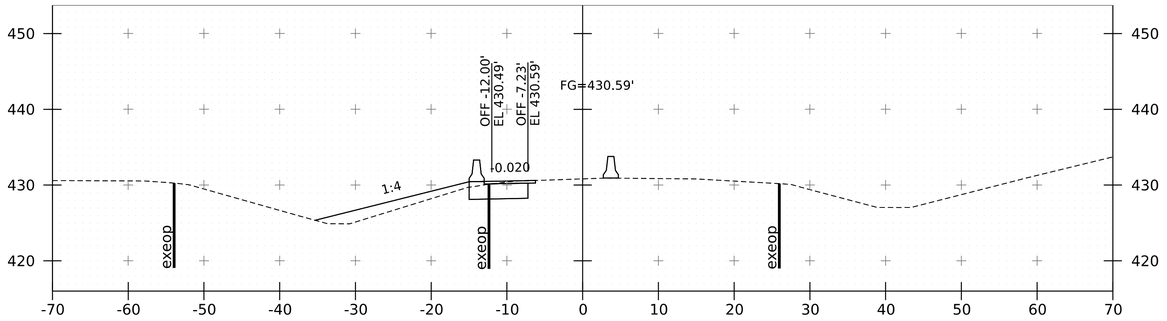


23+00



21+00



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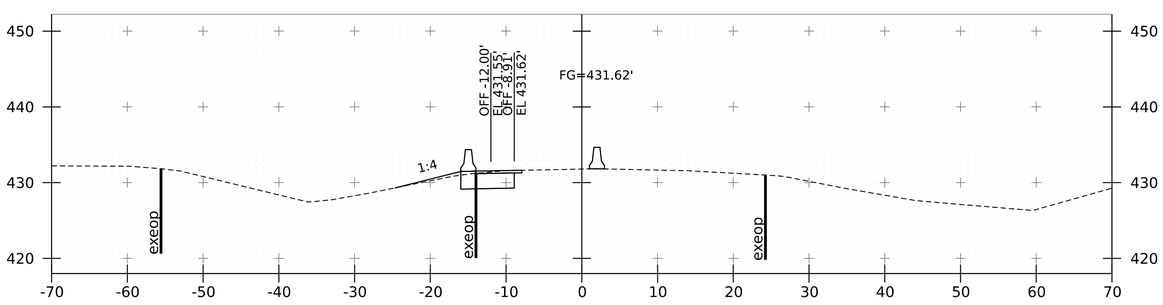

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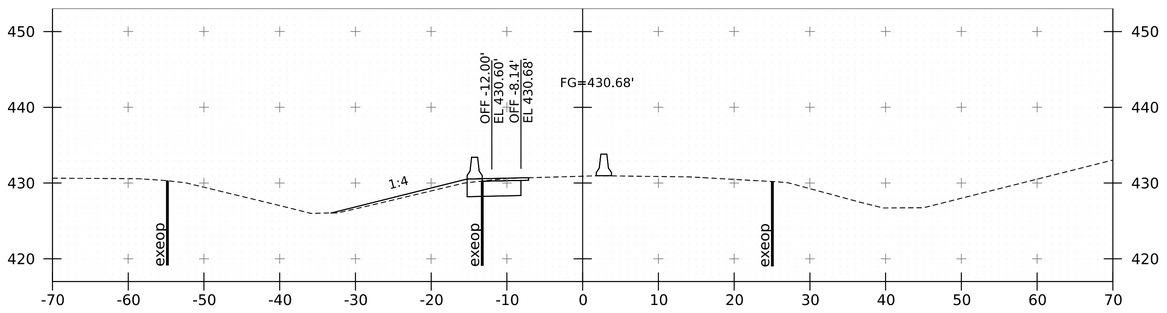
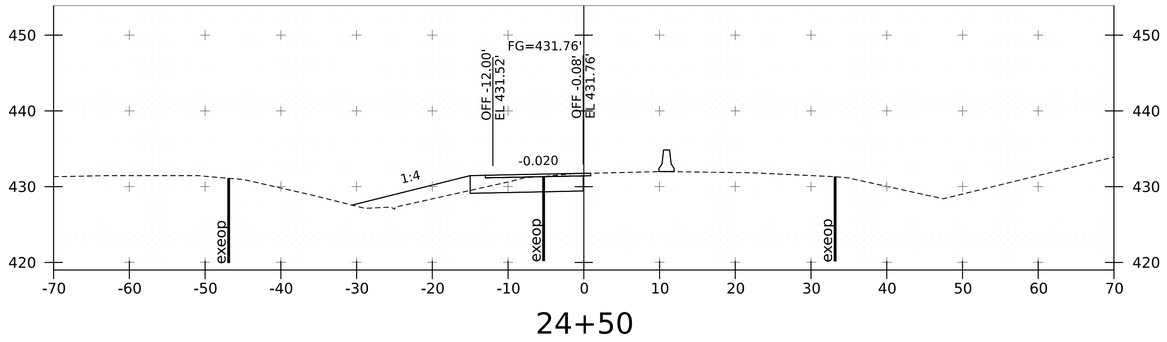


22+00

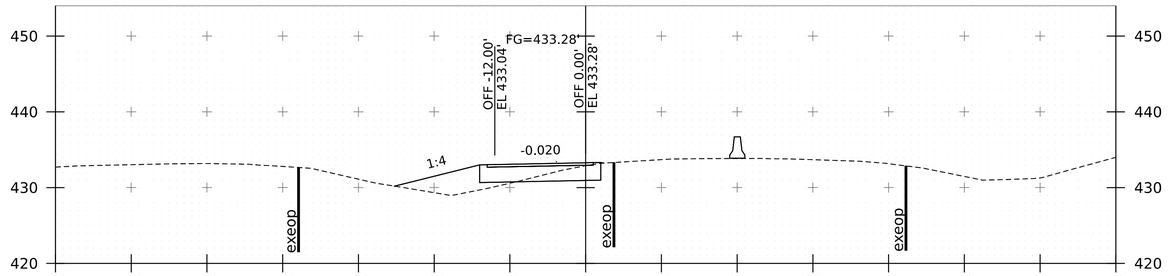
PROJECT NAME:	FAIRLEE
PROJECT NUMBER:	IM 091-2(91)

FILE NAME:	z21a024_xs_I91_SB_crossover.dgn	PLOT DATE:	3-APR-2024
PROJECT LEADER:	J. GRIGAS	DRAWN BY:	G. BURGMEIER
DESIGNED BY:	G. BURGMEIER	CHECKED BY:	I. MAYNARD
I91 SB CROSSOVER XS SHEET 7		SHEET	58 OF 100

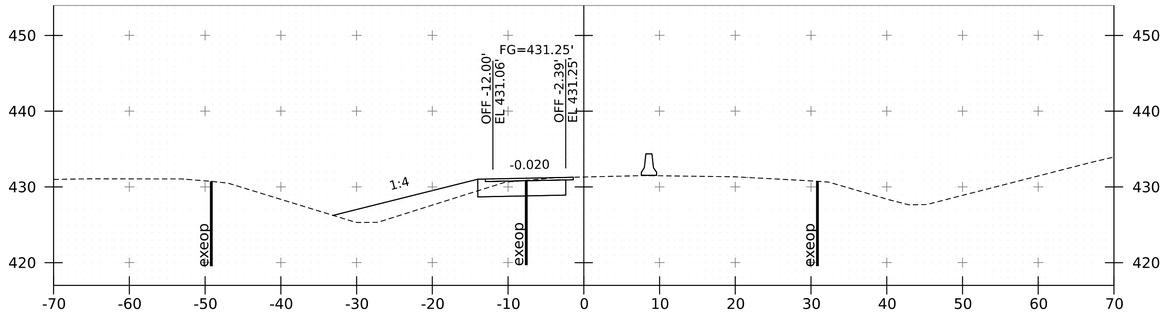
Stantec



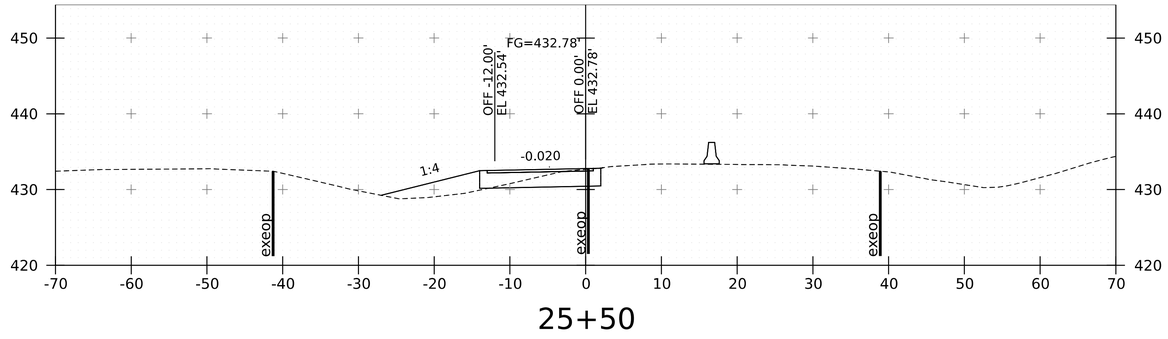
24+50



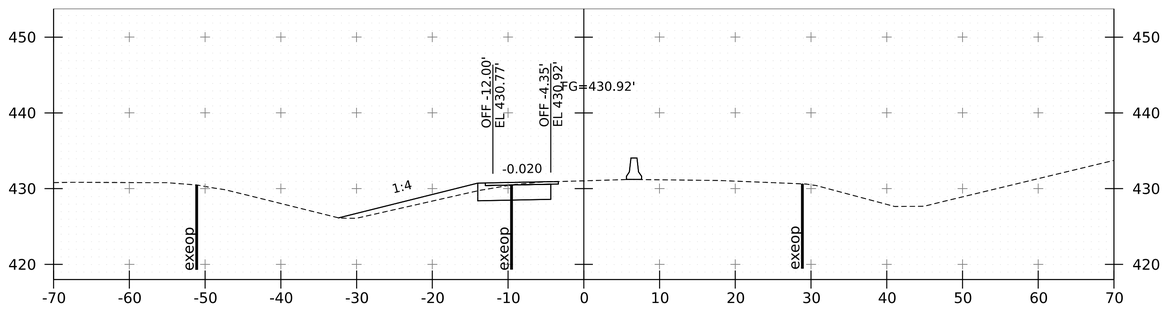
26+00



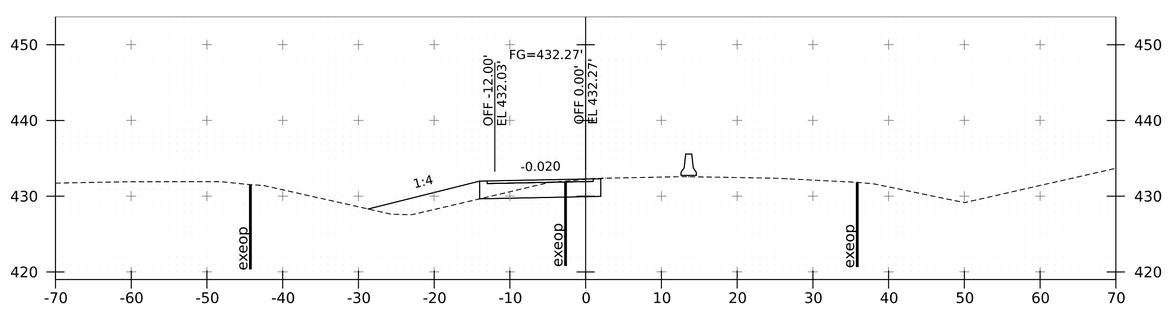
24+00



25+50



23+50

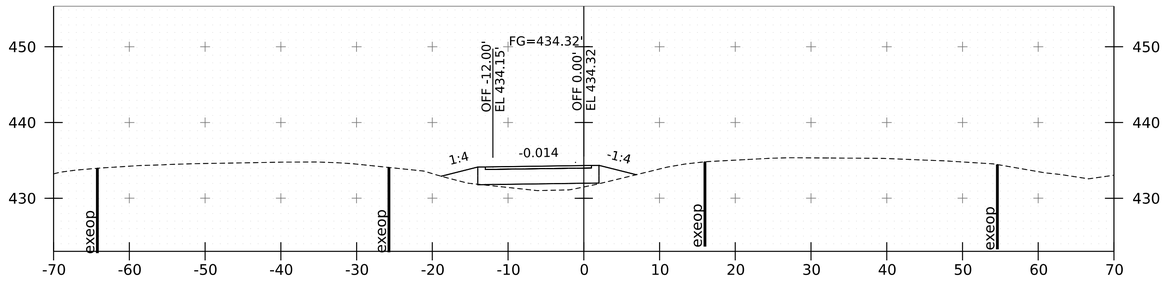


25+00

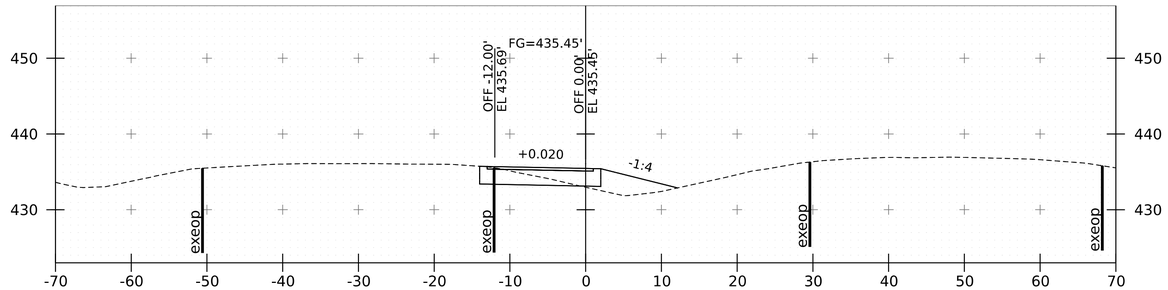
NOTE: LIDAR USED TO DEVELOP CROSSOVERS FROM STA. 25+00 - STA. 31+25

Stantec

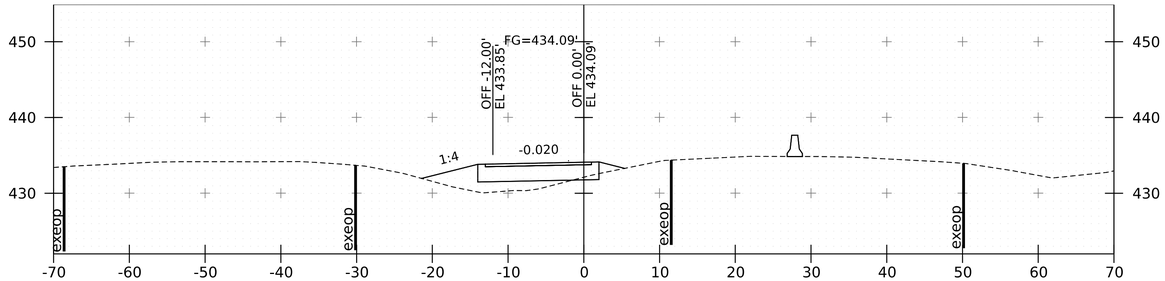
PROJECT NAME:	FAIRLEE
PROJECT NUMBER:	IM 091-2(91)
FILE NAME: z21a024_xs_I91_SB_crossover.dgn	PLOT DATE: 3-APR-2024
PROJECT LEADER: J. GRIGAS	DRAWN BY: G. BURGMEIER
DESIGNED BY: G. BURGMEIER	CHECKED BY: I. MAYNARD
I91 SB CROSSOVER XS SHEET 8	SHEET 59 OF 100



27+50



29+00



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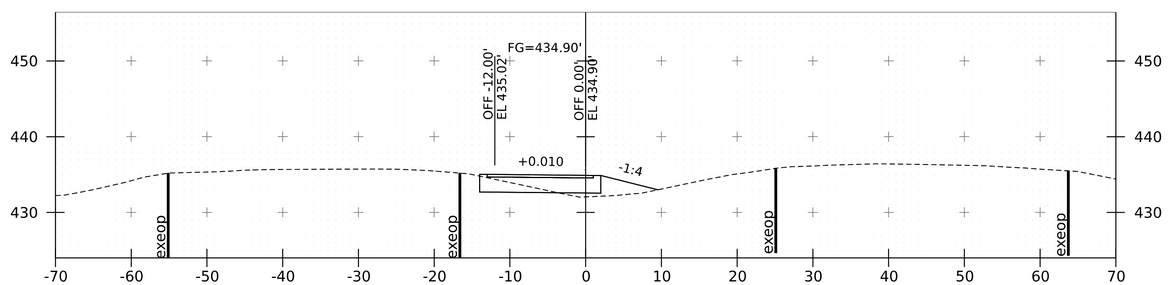

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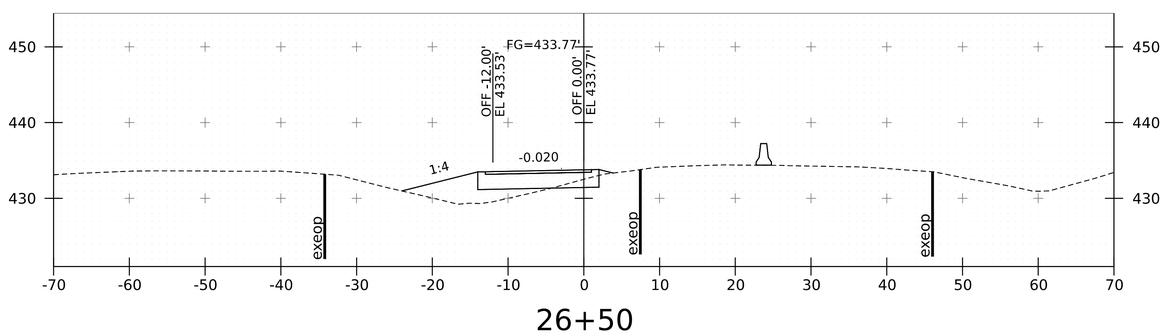

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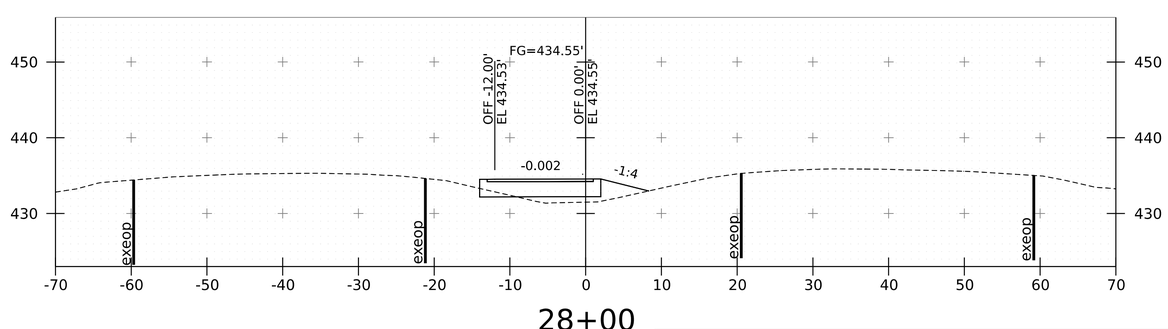
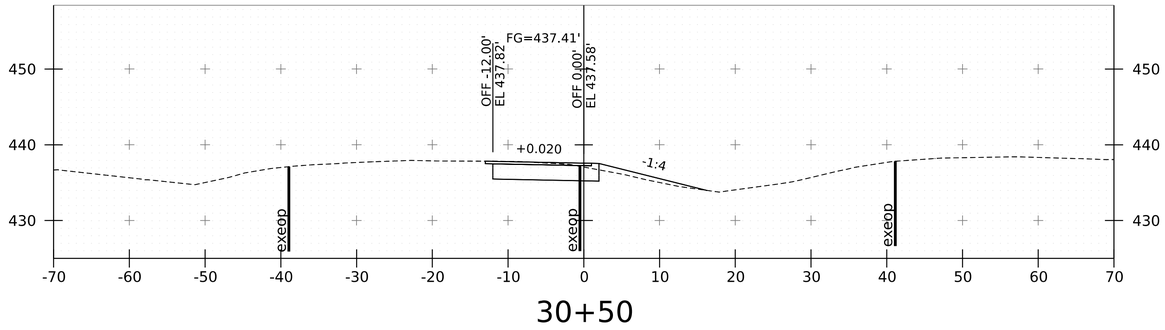


28+00

NOTE: LIDAR USED TO DEVELOP CROSSOVERS FROM STA. 25+00 - STA. 31+25

Stantec

PROJECT NAME:	FAIRLEE
PROJECT NUMBER:	IM 091-2(91)
FILE NAME: z21a024_xs_I91_SB_crossover.dgn	PLOT DATE: 3-APR-2024
PROJECT LEADER: J. GRIGAS	DRAWN BY: G. BURGMEIER
DESIGNED BY: G. BURGMEIER	CHECKED BY: I. MAYNARD
I91 SB CROSSOVER XS SHEET 9	SHEET 60 OF 100



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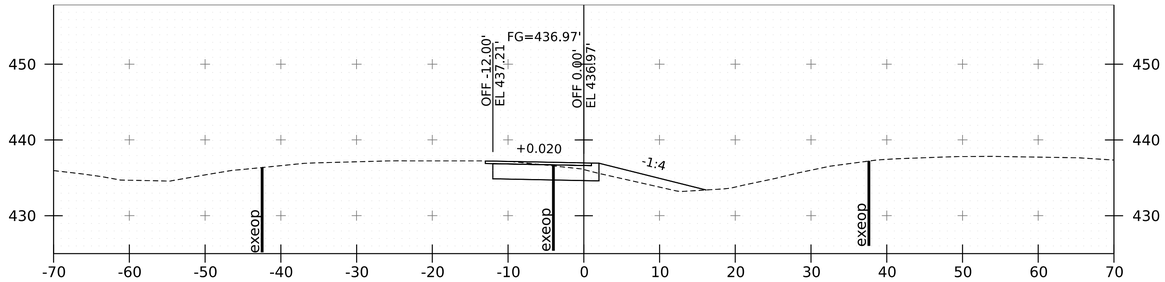

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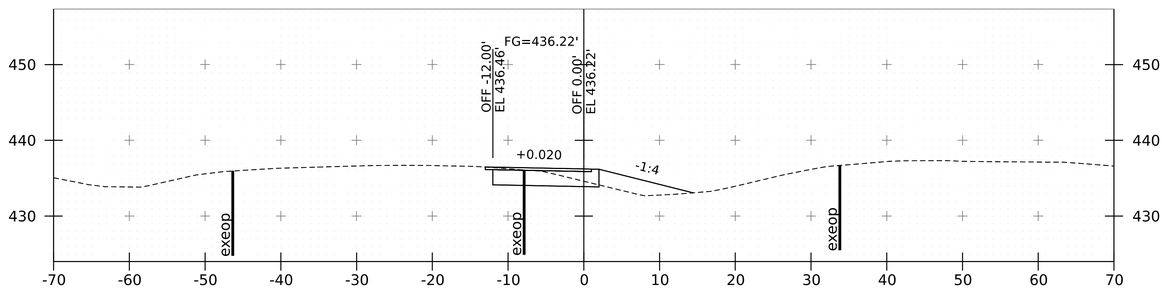

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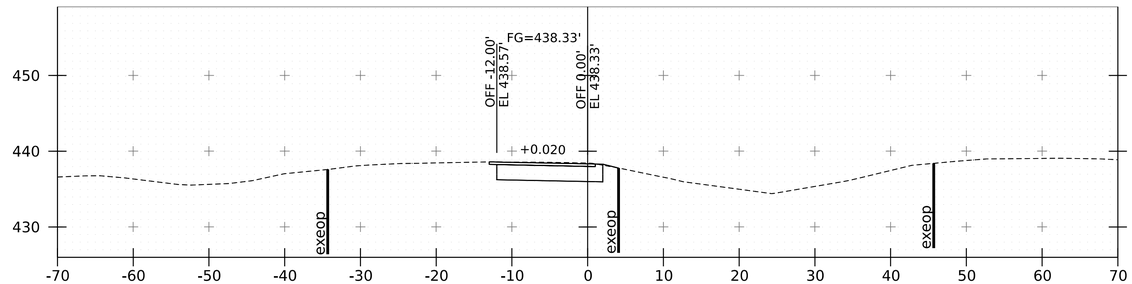

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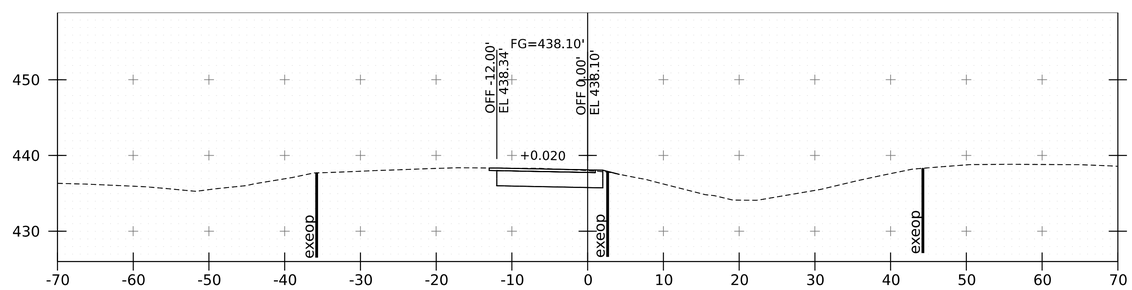


31+00

NOTE: LIDAR USED TO DEVELOP CROSSOVERS FROM STA. 25+00 - STA. 31+25

Stantec

PROJECT NAME:	FAIRLEE
PROJECT NUMBER:	IM 091-2(91)
FILE NAME: z21a024_xs_I91_SB_crossover.dgn	PLOT DATE: 3-APR-2024
PROJECT LEADER: J. GRIGAS	DRAWN BY: G. BURGMEIER
DESIGNED BY: G. BURGMEIER	CHECKED BY: I. MAYNARD
I91 SB CROSSOVER XS SHEET 10	SHEET 61 OF 100

SOIL CLASSIFICATION

AASHTO	
A1	Gravel and Sand
A3	Fine Sand
A2	Silty or Clayey Gravel and Sand
A4	Silty Soil - Low Compressibility
A5	Silty Soil - Highly Compressible
A6	Clayey Soil - Low Compressibility
A7	Clayey Soil - Highly Compressible

ROCK QUALITY DESIGNATION

R.Q.D. (%)	ROCK DESCRIPTION
<25	Very Poor
25 to 50	Poor
51 to 75	Fair
76 to 90	Good
>90	Excellent

SHEAR STRENGTH

UNDRAINED SHEAR STRENGTH IN P.S.F.	CONSISTENCY
<250	Very Soft
250-500	Soft
500-1000	Med. Stiff
1000-2000	Stiff
2000-4000	Very Stiff
>4000	Hard

CORRELATION GUIDE OF "N" TO DENSITY/CONSISTENCY

DENSITY (GRANULAR SOILS)		CONSISTENCY (COHESIVE SOILS)	
N	DESCRIPTIVE TERM	N	DESCRIPTIVE TERM
<5	Very Loose	<2	Very Soft
5-10	Loose	2-4	Soft
11-24	Med. Dense	5-8	Med. Stiff
25-50	Dense	9-15	Stiff
>50	Very Dense	16-30	Very Stiff
		31-60	Hard
		>60	Very Hard

COMMONLY USED SYMBOLS

▼	Water Elevation
⊗	Standard Penetration Boring
⊕	Auger Boring
⊙	Rod Sounding
S	Sample
N	Standard Penetration Test Blow Count Per Foot For: 2" O. D. Sampler 1 ⅜" I. D. Sampler Hammer Weight Of 140 Lbs. Hammer Fall Of 30"
VS	Field Vane Shear Test
US	Undisturbed Soil Sample
B	Blast
DC	Diamond Core
MD	Mud Drill
WA	Wash Ahead
HSA	Hollow Stem Auger
AX	Core Size 1 ⅛"
BX	Core Size 1 ⅝"
NX	Core Size 2 ⅛"
M	Double Tube Core Barrel Used
LL	Liquid Limit
PL	Plastic Limit
PI	Plasticity Index
NP	Non Plastic
w	Moisture Content (Dry Wgt. Basis)
D	Dry
M	Moist
MTW	Moist To Wet
W	Wet
Sat	Saturated
Bo	Boulder
Gr	Gravel
Sa	Sand
Si	Silt
Cl	Clay
HP	Hardpan
Le	Ledge
NLTD	No Ledge To Depth
CNPF	Can Not Penetrate Further
TLOB	Top of Ledge Or Boulder
NR	No Recovery
Rec.	Recovery
%Rec.	Percent Recovery
RQD	Rock Quality Designation
CBR	California Bearing Ratio
<	Less Than
>	Greater Than

R Refusal (N 100) >

VTSPG NAD83 - See Note 7

COLOR

blk	Black	pnk	Pink
bl	Blue	pu	Purple
brn	Brown	rd	Red
dk	Dark	tn	Tan
gry	Gray	wh	White
gn	Green	yel	Yellow
lt	Light	mltc	Multicolored
or	Orange		

DEFINITIONS (AASHTO)

BEDROCK (LEDGE) - Rock in its native location of indefinite thickness.

BOULDER - A rock fragment with an average dimension > 12 inches.

COBBLE - Rock fragments with an average dimension between 3 and 12 inches.

GRAVEL - Rounded particles of rock < 3" and > 0.0787" (#10 sieve).

SAND - Particles of rock < 0.0787" (#10 sieve) and > 0.0029" (#200 sieve).

SILT - Soil < 0.0029" (#200 sieve), non or slightly plastic and exhibits no strength when air-dried.

CLAY - Fine grained soil, exhibits plasticity when moist and considerable strength when air-dried.

VARVED - Alternate layers of silt and clay.

HARDPAN - Extremely dense soil, cemented layer, not softened when wet.

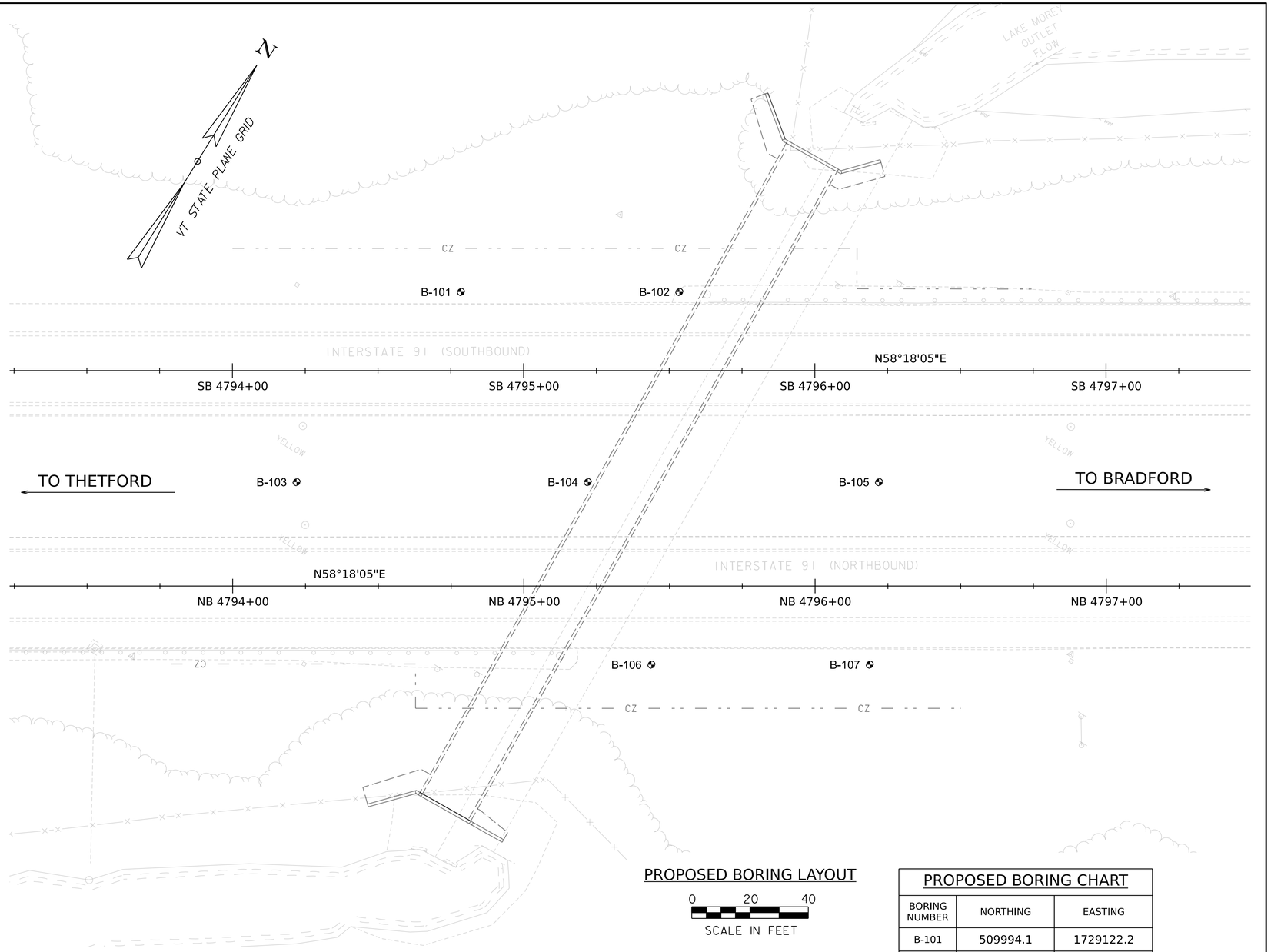
MUCK - Soft organic soil (containing > 10% organic material.

MOISTURE CONTENT - Weight of water divided by dry weight of soil.

FLOWING SAND - Granular soil so saturated (loose) that it flows into drill casing during extraction of wash rod.

STRIKE - Angle from magnetic north to line of intersection of bed with a horizontal plane.

DIP - Inclination of bed with a horizontal plane.



PROPOSED BORING LAYOUT

0 20 40

SCALE IN FEET

PROPOSED BORING CHART

BORING NUMBER	NORTHING	EASTING
B-101	509994.1	1729122.2
B-102	510033.6	1729186.0
B-103	509908.9	1729108.5
B-104	509961.5	1729193.6
B-105	510014.0	1729278.7
B-106	509919.6	1729245.1
B-107	509959.0	1729308.9

GENERAL NOTES

1. The subsurface explorations shown herein were made in XXX by XXX.
2. Soil and rock classifications, properties and descriptions are based on engineering interpretation from available subsurface information by the Agency and may not necessarily reflect actual variations in subsurface conditions that may be encountered between individual boring or sample locations.
3. Observed water levels and/or conditions indicated are as recorded at the time of exploration and may vary according to the prevailing rainfall, methods of exploration and other factors.
4. Engineering judgment was exercised in preparing the subsurface information presented herein. Analysis and interpretation of subsurface data was performed and interpreted for Agency design and estimating purposes. Presentation of the information in the Contract is intended to provide the Contractor access to the same data available to the Agency. The subsurface information is presented in good faith and is not intended as a substitute for personal investigation, independent interpretation, independent analysis or judgment by the Contractor.
5. Pictorial structure details shown on the boring plan layout or soils profile are for illustrative purposes only and may not accurately portray final contract details.
6. Terminology used on boring logs to describe the hardness, degree of weathering, and spacing of fractures, joints and other discontinuities in the bedrock is defined in the AASHTO Manual on Subsurface Investigations, 1988.
7. Northing and Easting coordinates are shown in Vermont State Plane Grid North American Datum 1983 in meters and survey feet.

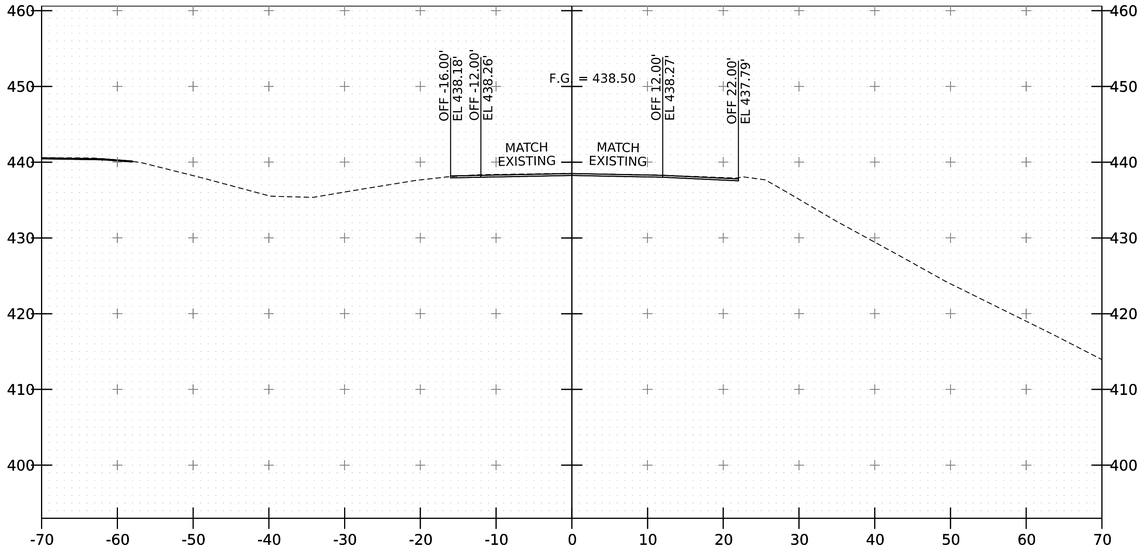
Stantec

PROJECT NAME: FAIRLEE

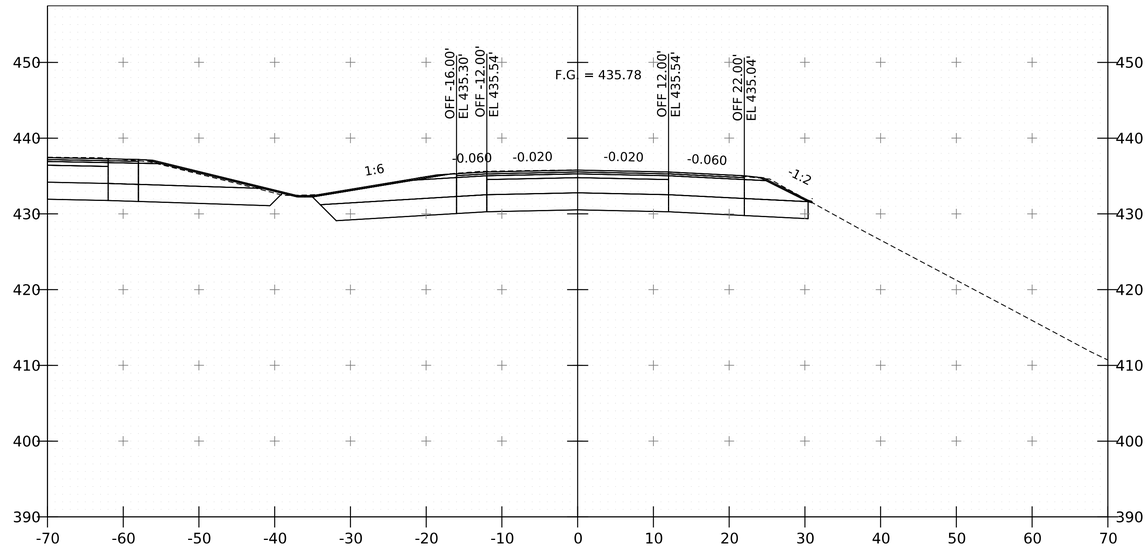
PROJECT NUMBER: IM 091-2(91)

FILE NAME: z21a024bor.dgn
PROJECT LEADER: J. GRIGAS
DESIGNED BY: J. GRIGAS
PROPOSED BORING LAYOUT SHEET

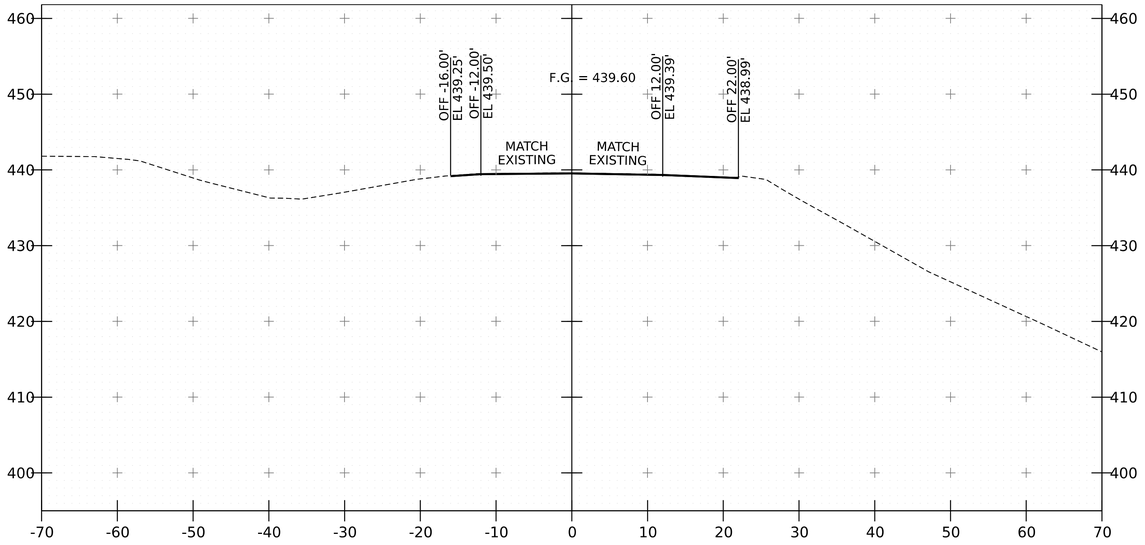
PLOT DATE: 3-APR-2024
DRAWN BY: P.ARMATA
CHECKED BY: J. GRIGAS
SHEET 62 OF 100



NB 4793+00



NB 4794+00



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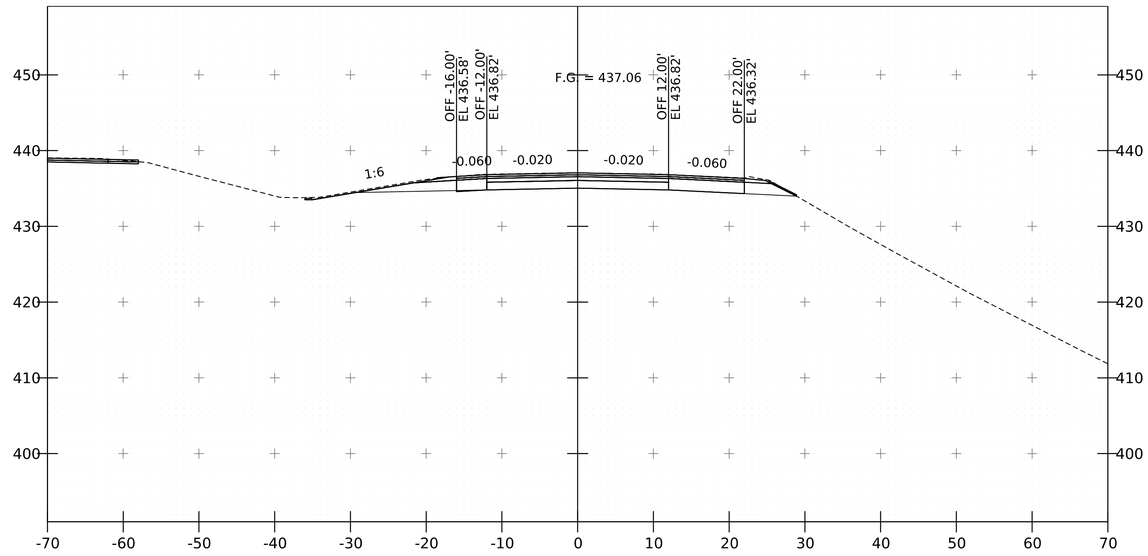

NB 4793+50
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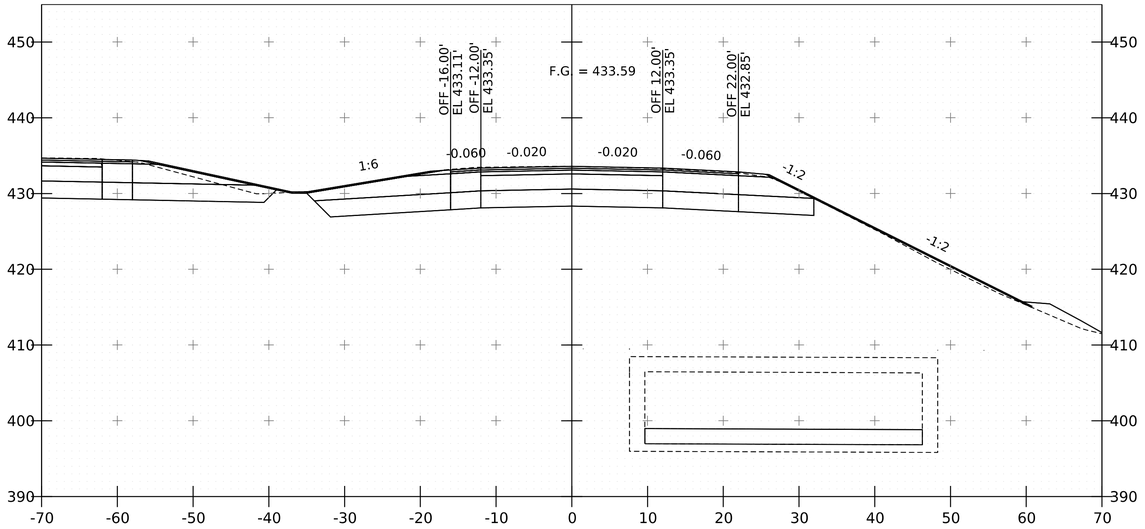
PROJECT NAME:	FAIRLEE
PROJECT NUMBER:	IM 091-2(91)
FILE NAME: z21a024xs_NB.dgn	PLOT DATE: 3-APR-2024
PROJECT LEADER: J. GRIGAS	DRAWN BY: G. BURGMEIER
DESIGNED BY: G. BURGMEIER	CHECKED BY: I. MAYNARD
I91 NB XS SHEET 1	SHEET 63 OF 100



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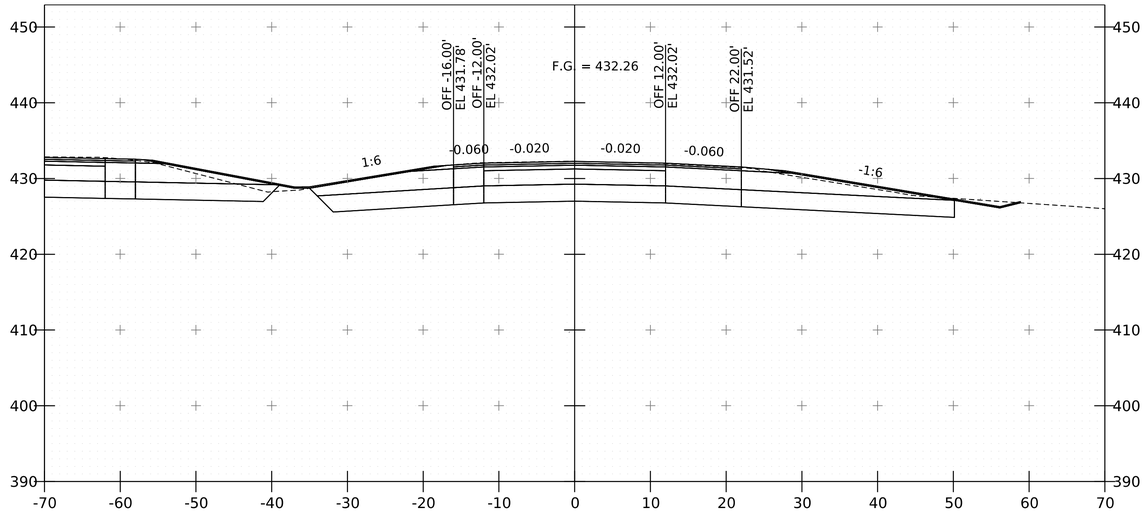

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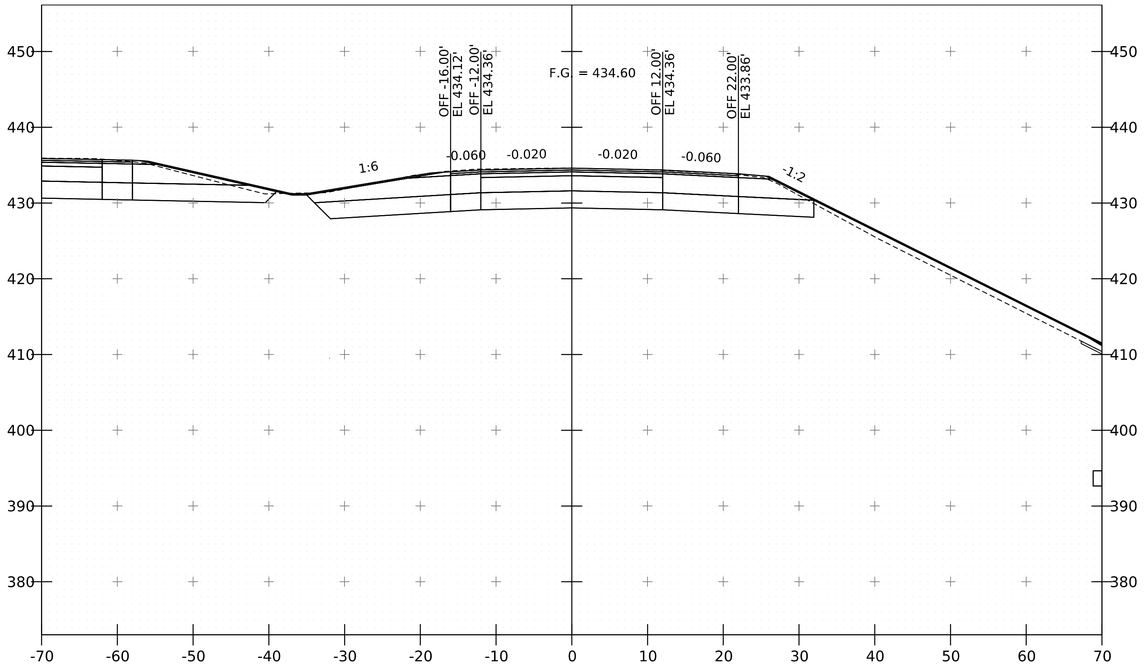

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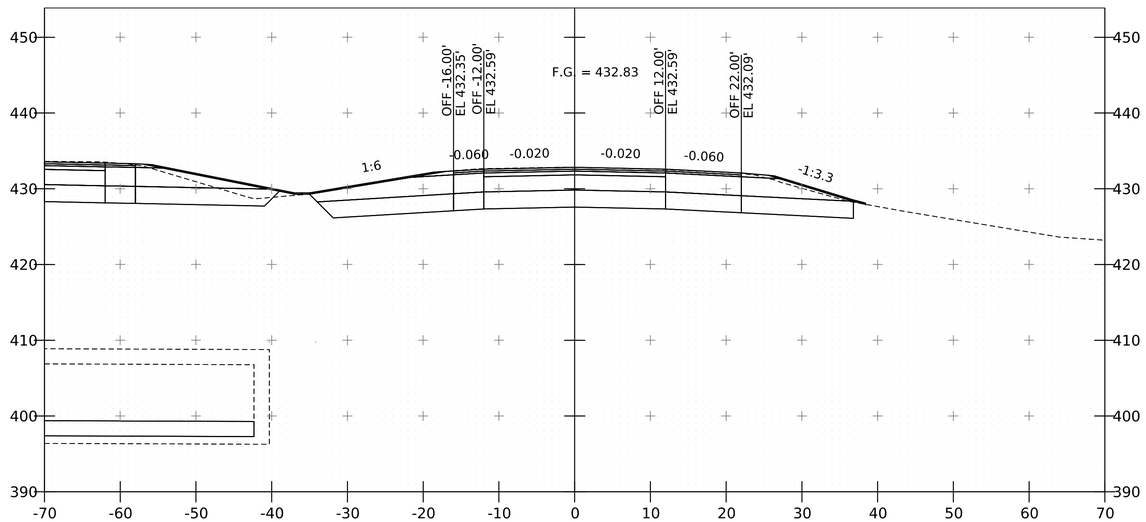
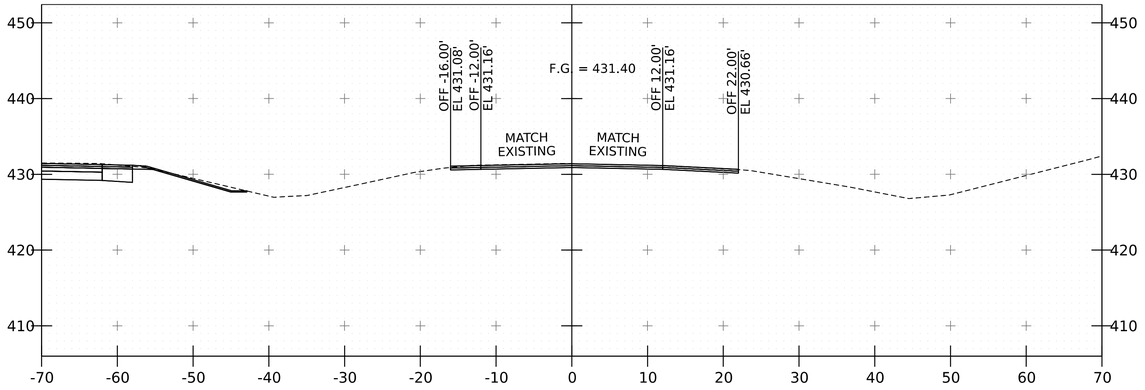


NB 4795+50

PROJECT NAME:	FAIRLEE
PROJECT NUMBER:	IM 091-2(91)
FILE NAME: z21a024xs_NB.dgn	PLOT DATE: 3-APR-2024
PROJECT LEADER: J. GRIGAS	DRAWN BY: G. BURGMEIER
DESIGNED BY: G. BURGMEIER	CHECKED BY: I. MAYNARD
I91 NB XS SHEET 2	SHEET 64 OF 100



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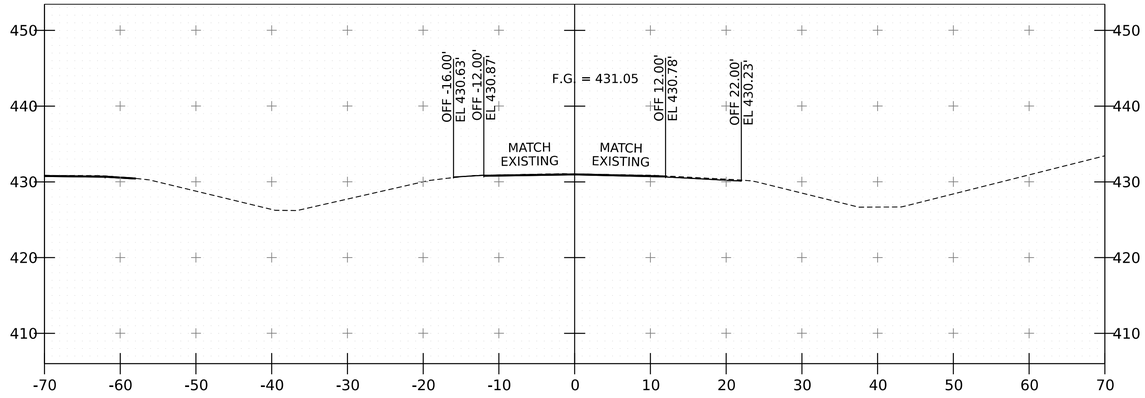

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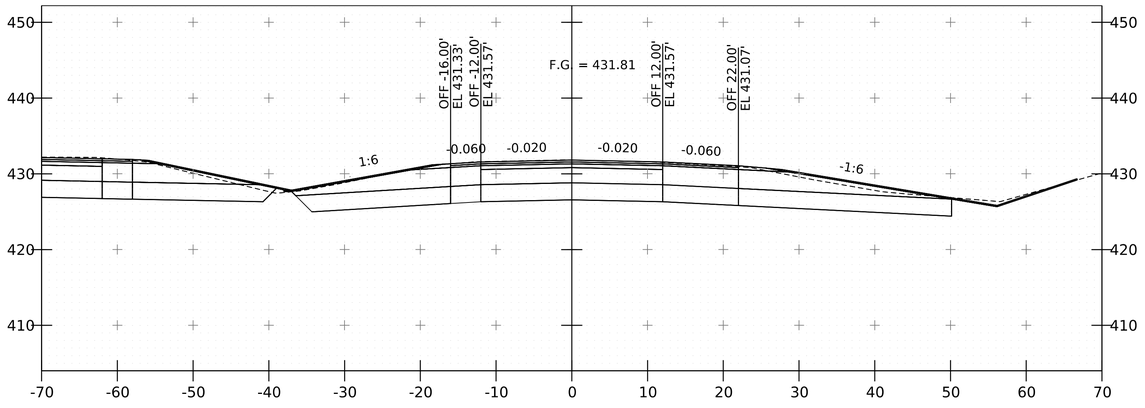

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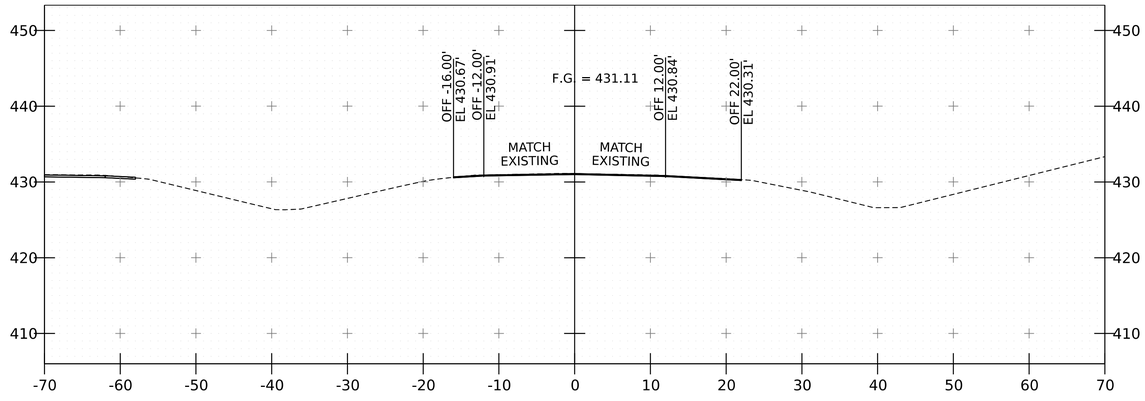
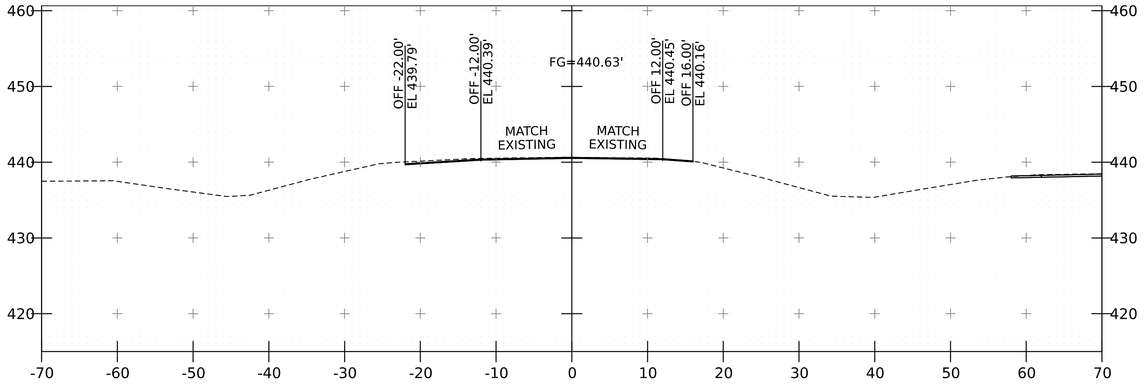


NB 4797+50

PROJECT NAME:	FAIRLEE
PROJECT NUMBER:	IM 091-2(91)
FILE NAME: z21a024xs_NB.dgn	PLOT DATE: 3-APR-2024
PROJECT LEADER: J. GRIGAS	DRAWN BY: G. BURGMEIER
DESIGNED BY: G. BURGMEIER	CHECKED BY: I. MAYNARD
I91 NB XS SHEET 3	SHEET 65 OF 100



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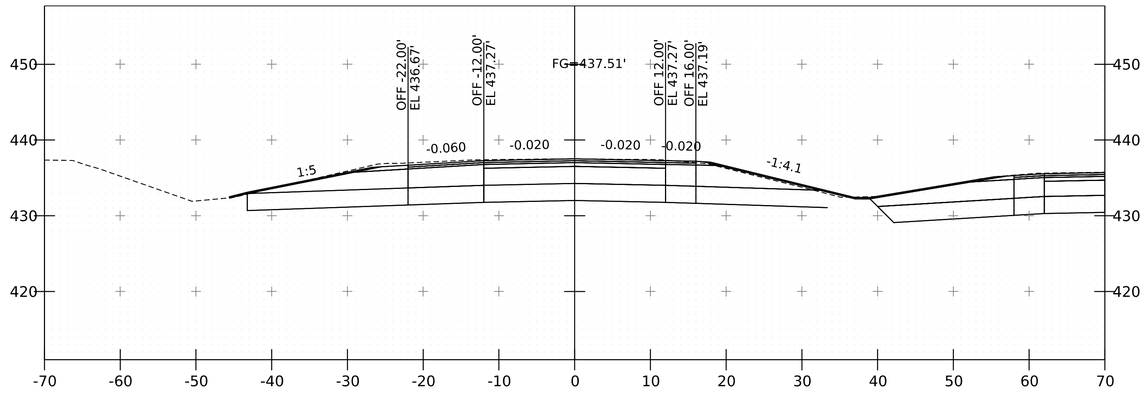

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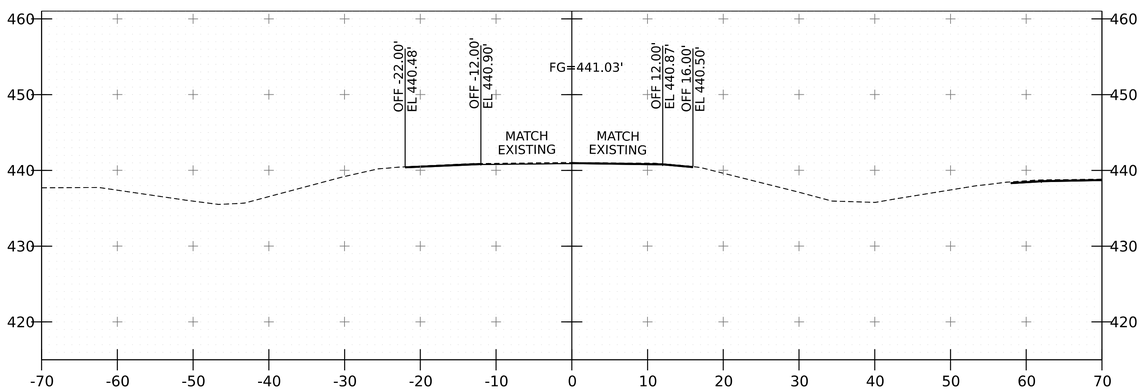

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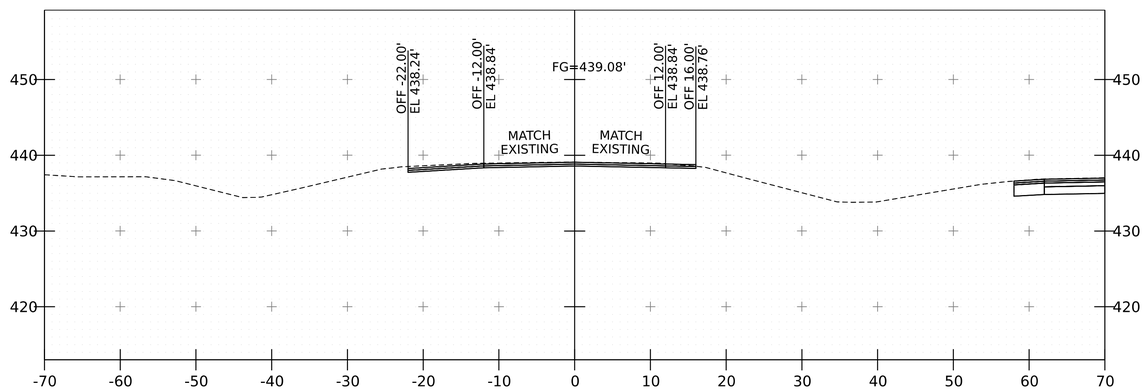
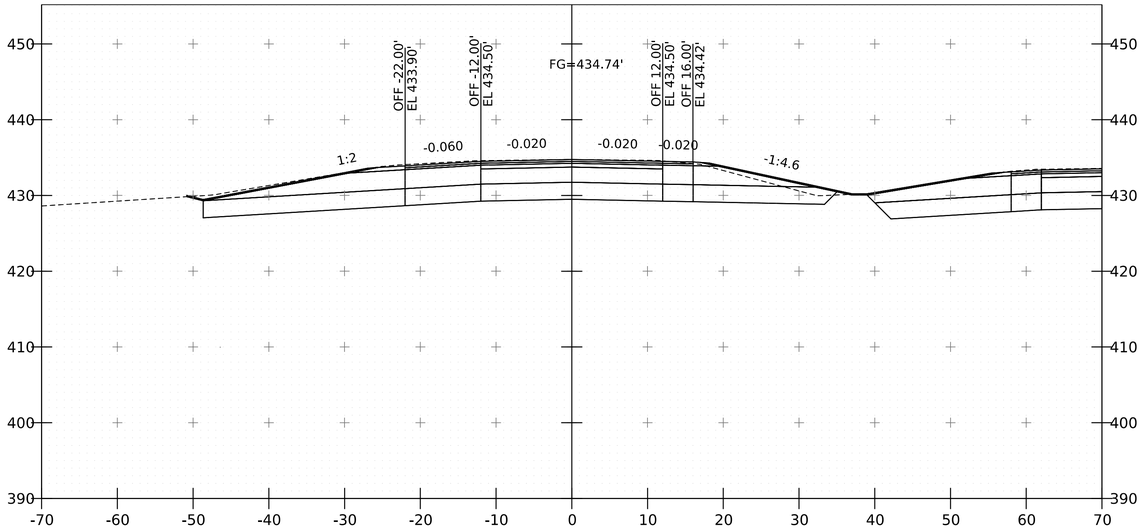


SB 4793+50

PROJECT NAME:	FAIRLEE
PROJECT NUMBER:	IM 091-2(91)
FILE NAME: z21a024xs_SB.dgn	PLOT DATE: 3-APR-2024
PROJECT LEADER: J. GRIGAS	DRAWN BY: G. BURGMEIER
DESIGNED BY: G. BURGMEIER	CHECKED BY: I. MAYNARD
I91 SB XS SHEET 1	SHEET 66 OF 100



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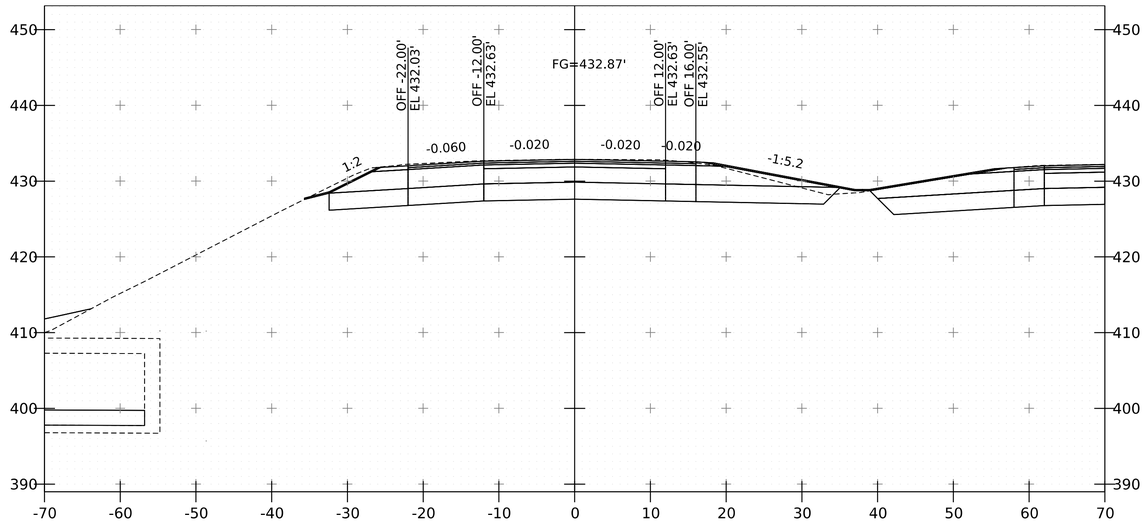

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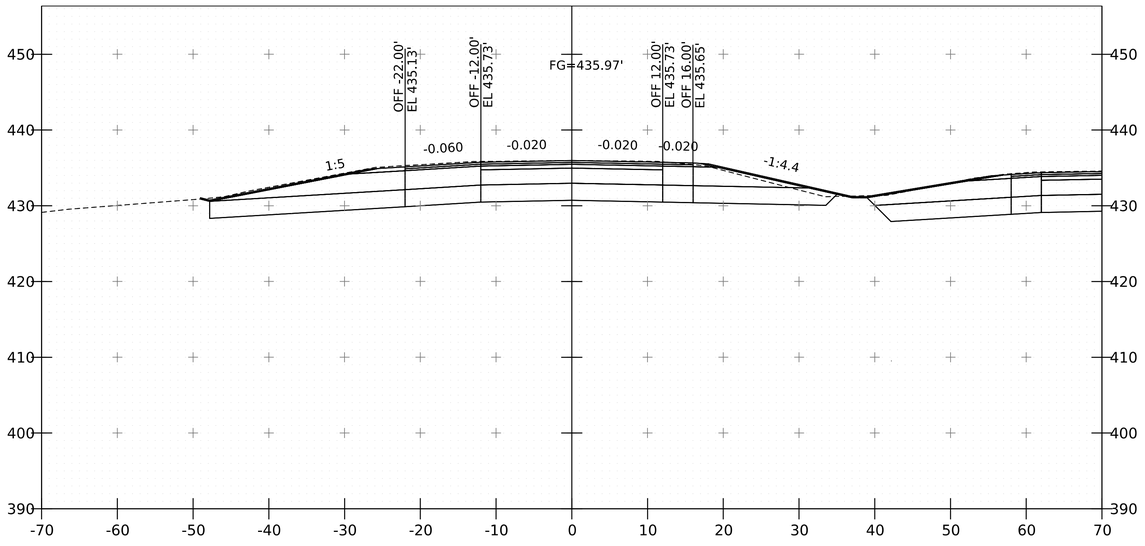

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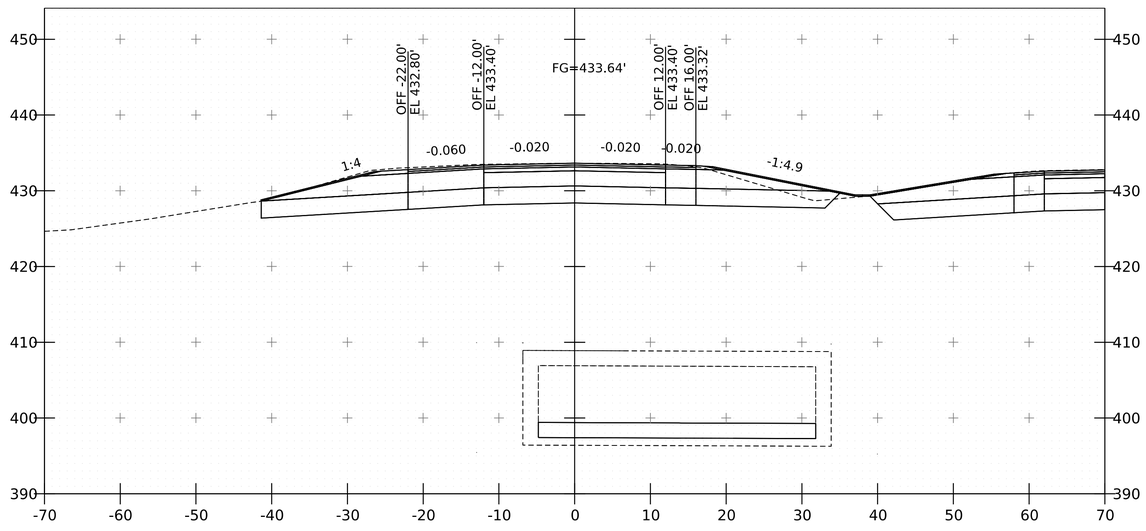
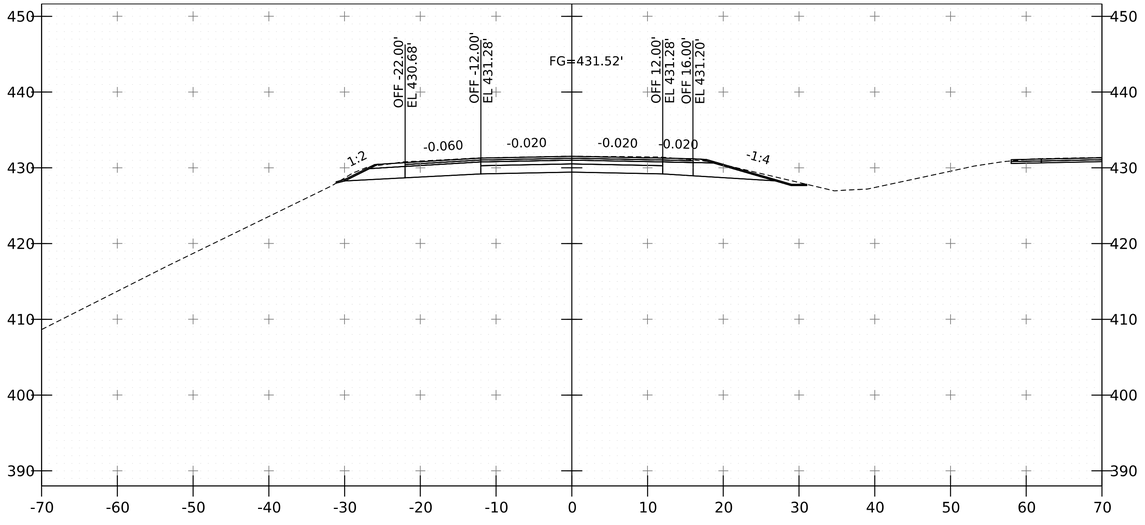


SB 4795+50

PROJECT NAME:	FAIRLEE
PROJECT NUMBER:	IM 091-2(91)
FILE NAME: z21a024xs_SB.dgn	PLOT DATE: 3-APR-2024
PROJECT LEADER: J. GRIGAS	DRAWN BY: G. BURGMEIER
DESIGNED BY: G. BURGMEIER	CHECKED BY: I. MAYNARD
I91 SB XS SHEET 2	SHEET 67 OF 100



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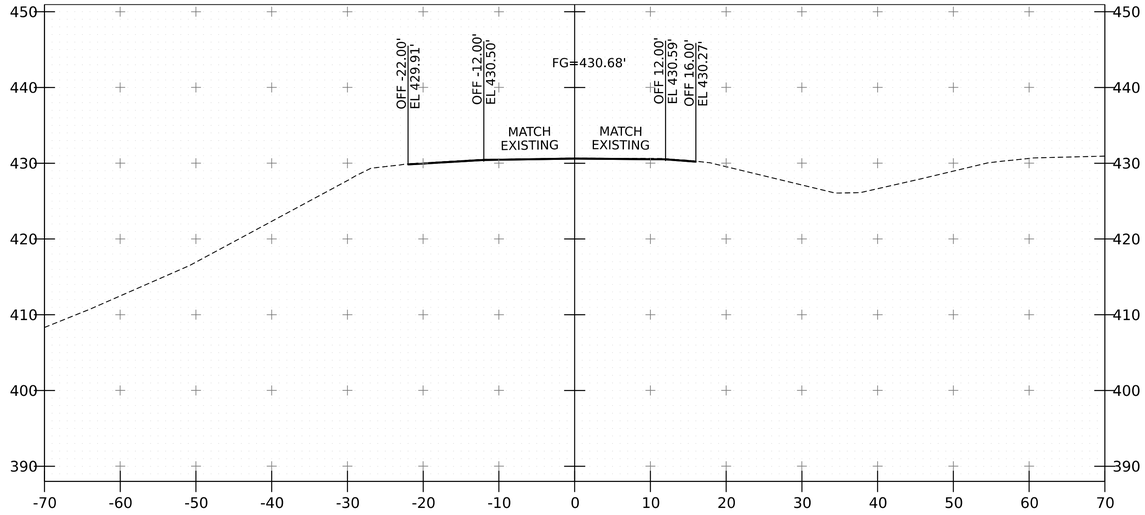

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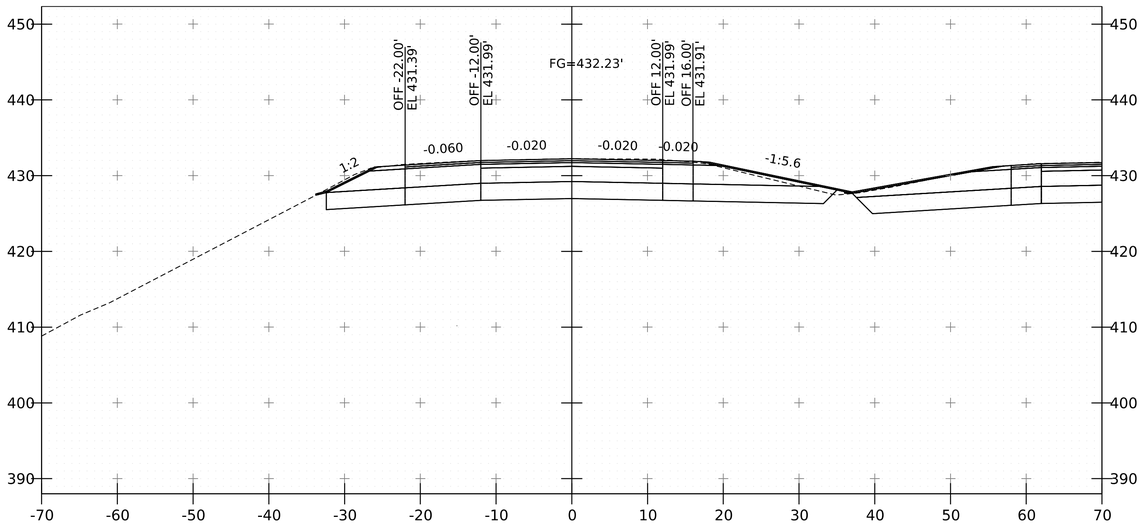

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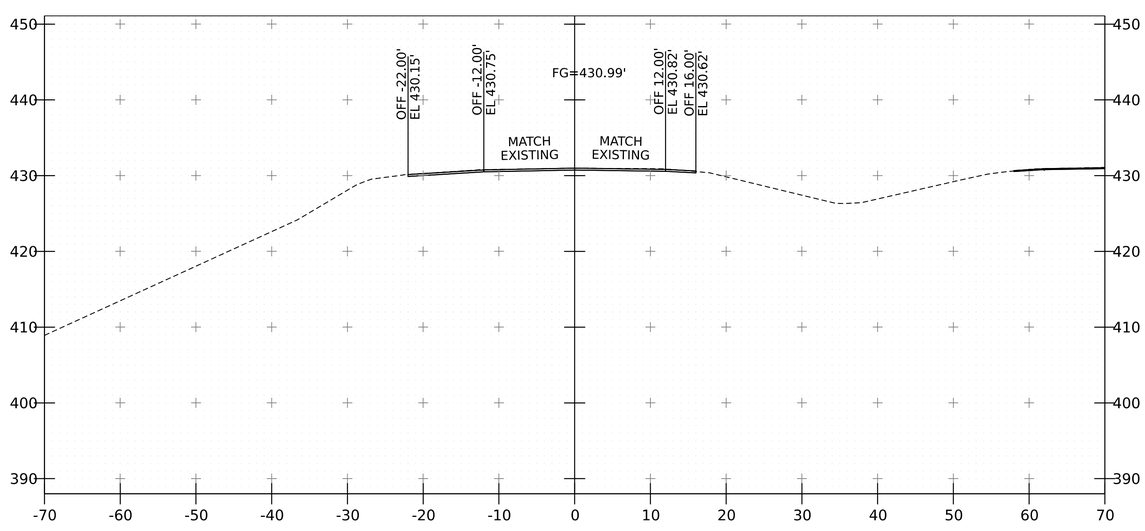
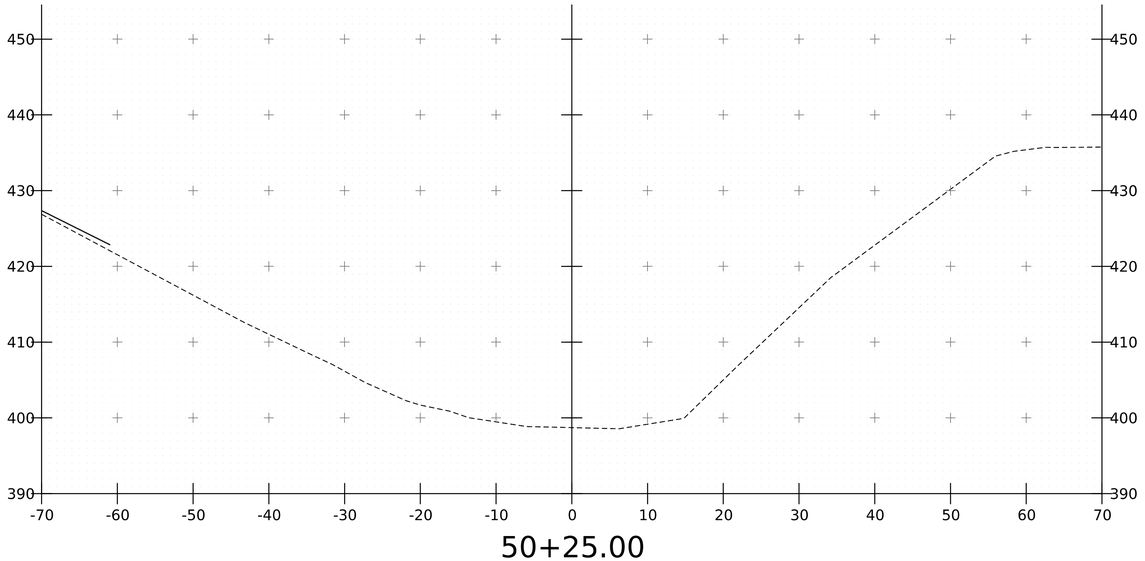


SB 4797+50

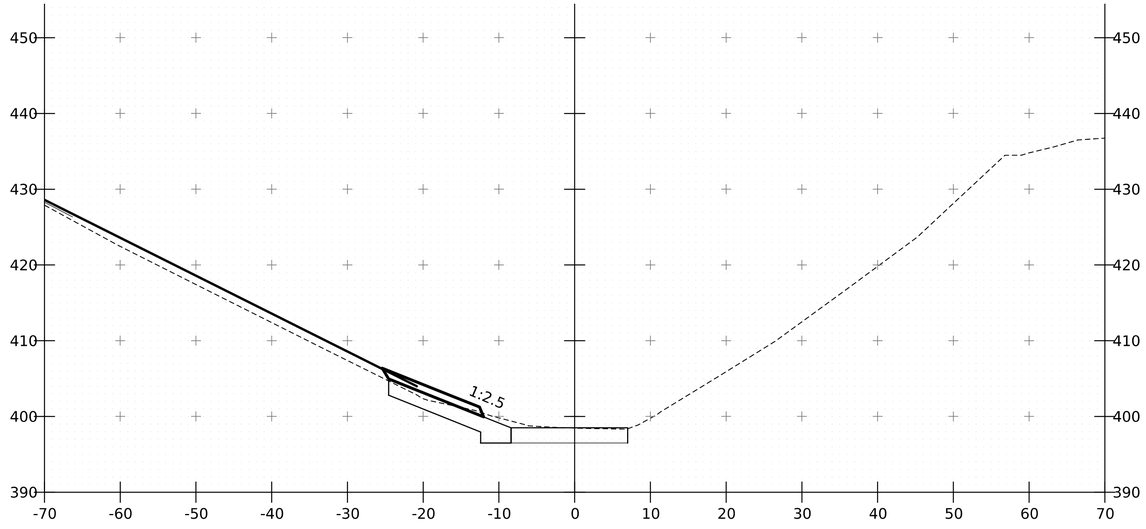
PROJECT NAME:	FAIRLEE
PROJECT NUMBER:	IM 091-2(91)
FILE NAME: z21a024xs_SB.dgn	PLOT DATE: 3-APR-2024
PROJECT LEADER: J. GRIGAS	DRAWN BY: G. BURGMEIER
DESIGNED BY: G. BURGMEIER	CHECKED BY: I. MAYNARD
I91 SB XS SHEET 3	SHEET 68 OF 100



50+25.00

STA 50+75.00 LT
BEGIN CHANNEL EXCAVATION
GEOTEXTILE UNDER STONE FILL
STONE FILL, TYPE II
E-STONE, TYPE II

STA 50+75.00 RT
BEGIN CHANNEL EXCAVATION
E-STONE, TYPE II



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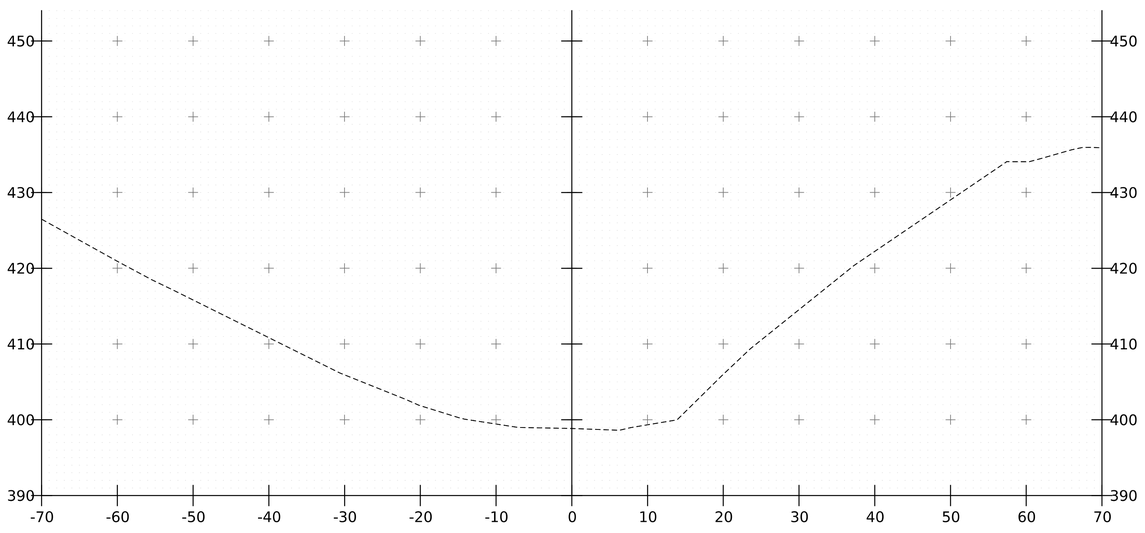

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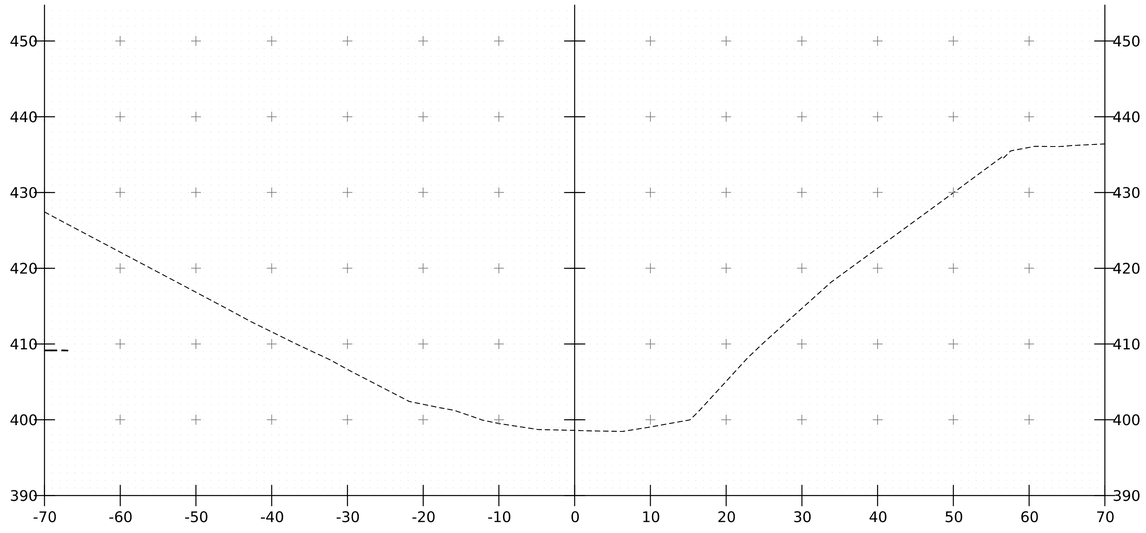

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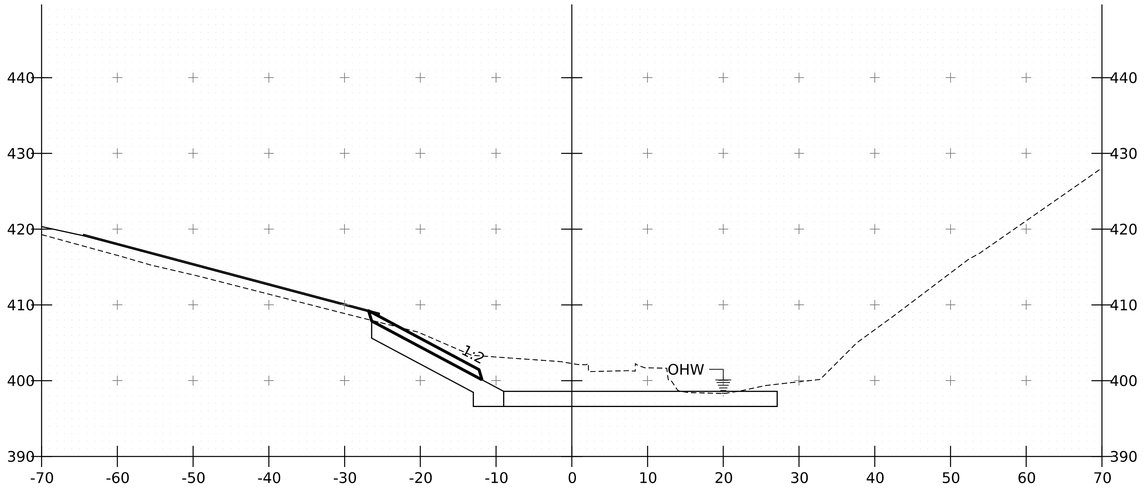
Stantec

PROJECT NAME: FAIRLEE
PROJECT NUMBER: IM 091-2(91)

FILE NAME: 21a024_xs_Channel.dgn
PROJECT LEADER: J. GRIGAS
DESIGNED BY: K. RICHARDSON
CHANNEL XS SHEET 1

PLOT DATE: 4/3/2024
DRAWN BY: P.ARMATA
CHECKED BY: J. GRIGAS
SHEET 69 OF 100



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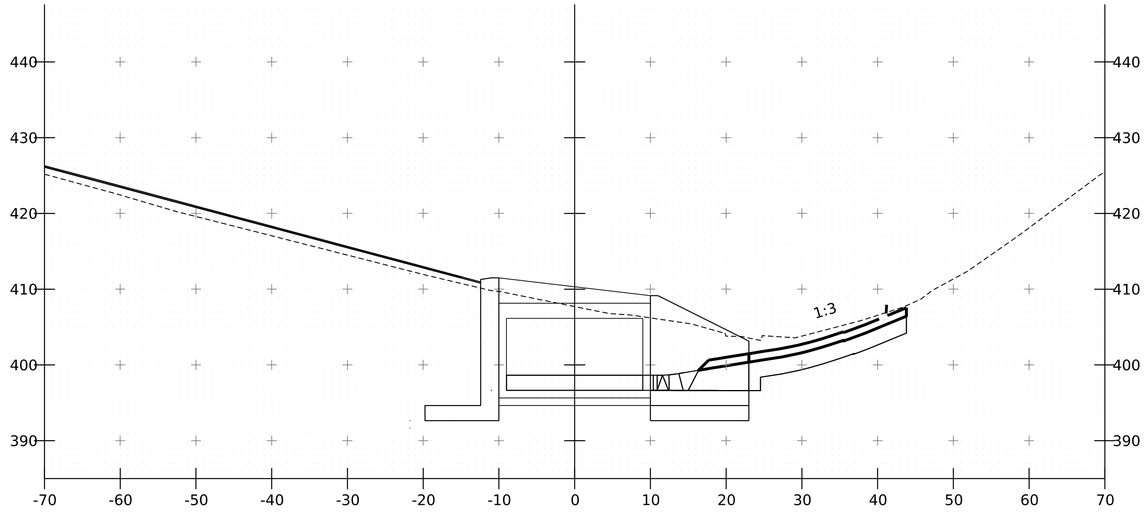
GEOTEXTILE UNDER STONE FILL
STONE FILL, TYPE II



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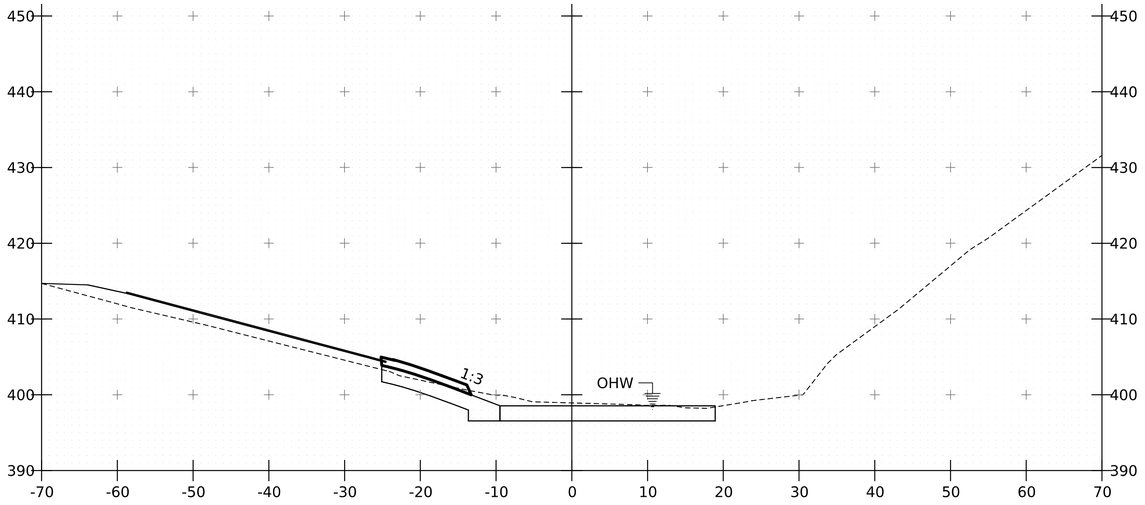

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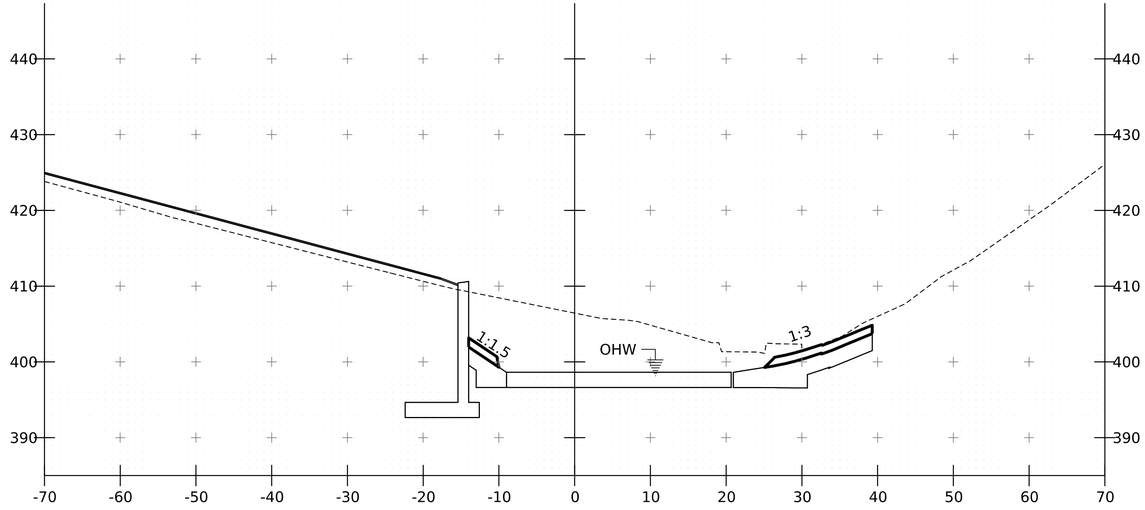

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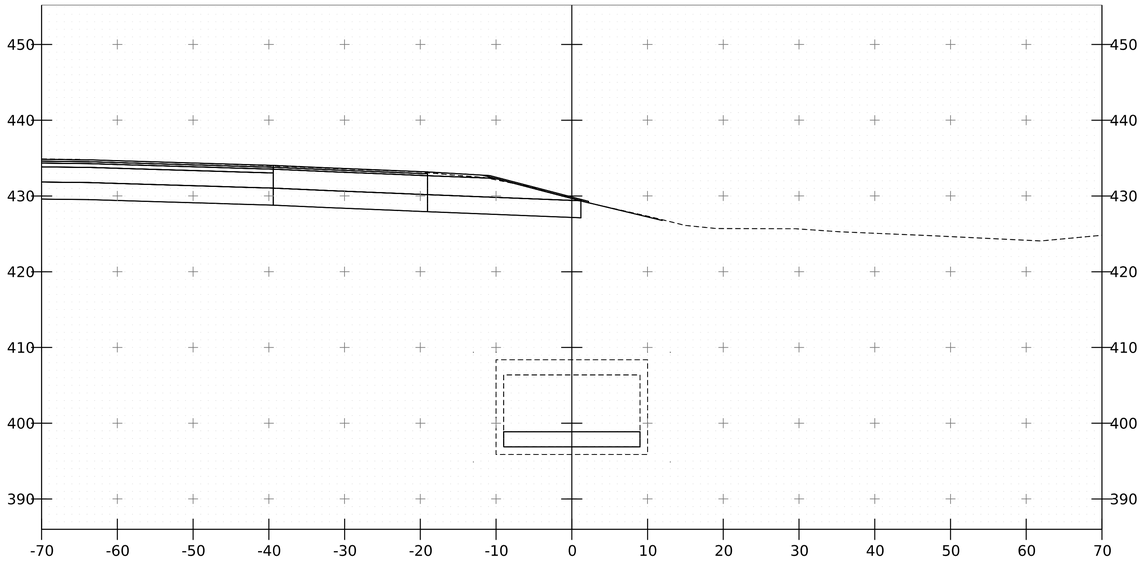
Stantec

PROJECT NAME: FAIRLEE
PROJECT NUMBER: IM 091-2(91)

FILE NAME: 21a024_xs_Channel.dgn
PROJECT LEADER: J. GRIGAS
DESIGNED BY: K. RICHARDSON
CHANNEL XS SHEET 2

PLOT DATE: 4/3/2024
DRAWN BY: P.ARMATA
CHECKED BY: J. GRIGAS
SHEET 70 OF 100



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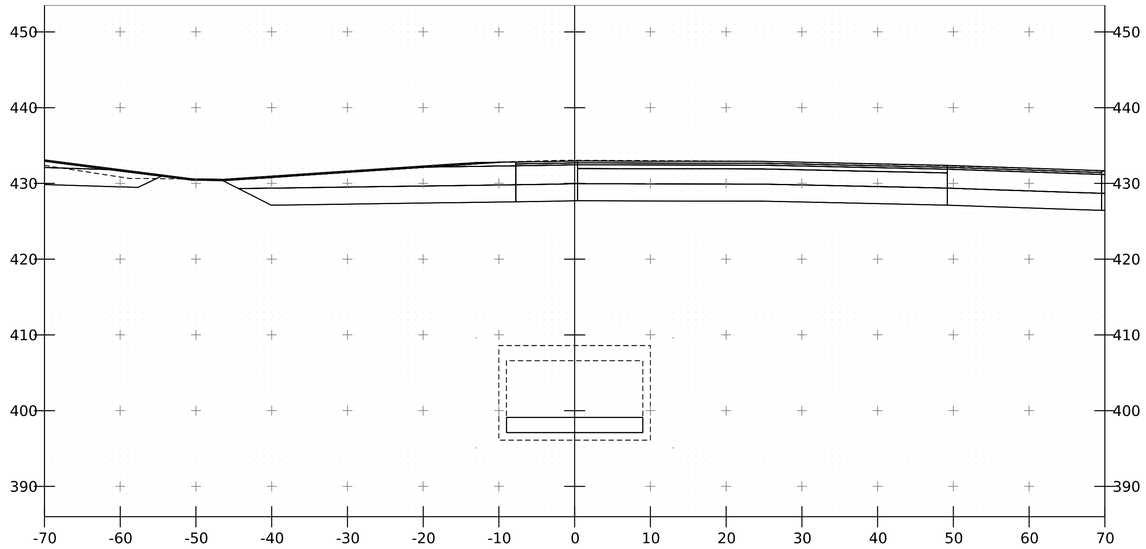

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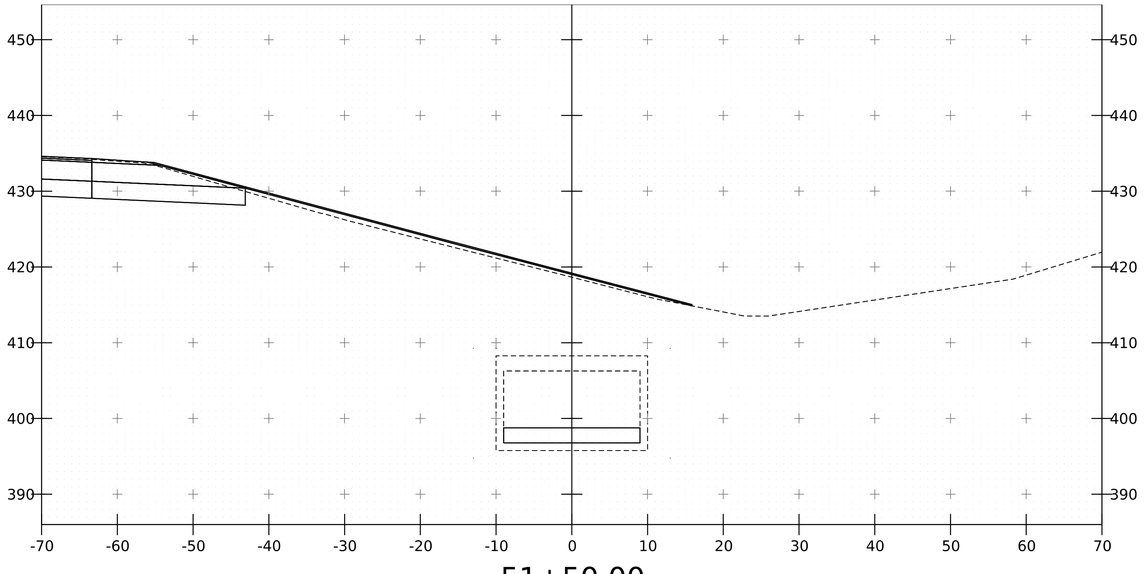

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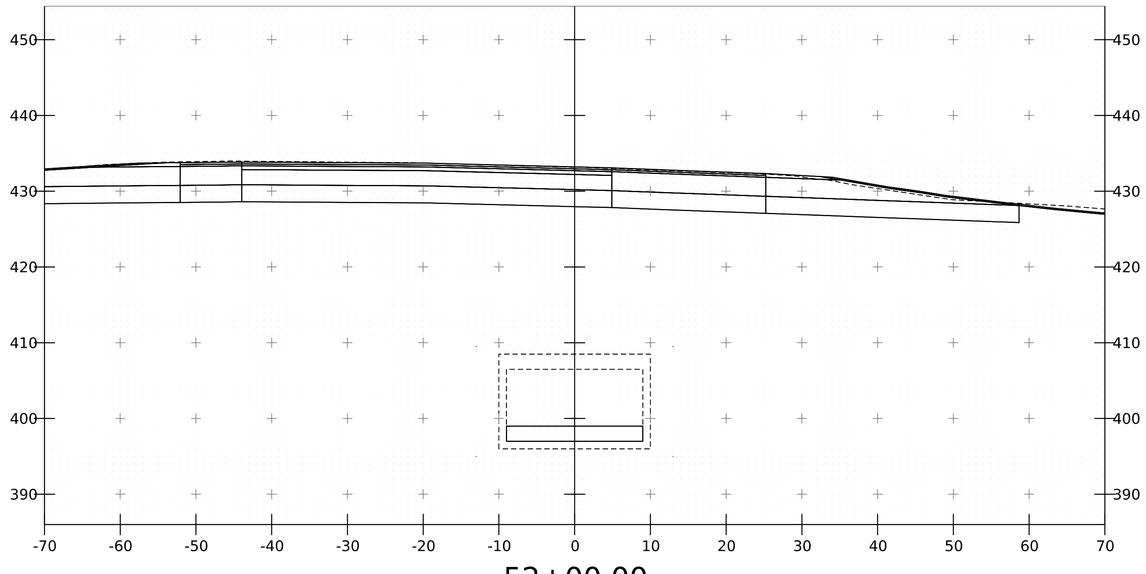

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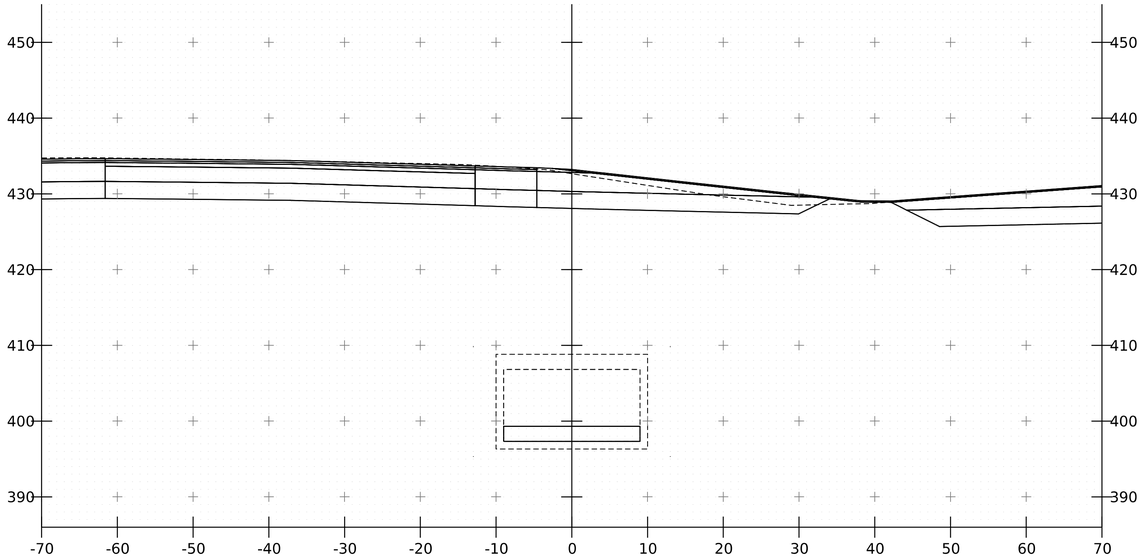
Stantec

PROJECT NAME: FAIRLEE
PROJECT NUMBER: IM 091-2(91)

FILE NAME: 21a024_xs_Channel.dgn
PROJECT LEADER: J. GRIGAS
DESIGNED BY: K. RICHARDSON
CHANNEL XS SHEET 3

PLOT DATE: 4/3/2024
DRAWN BY: P.ARMATA
CHECKED BY: J. GRIGAS
SHEET 71 OF 100



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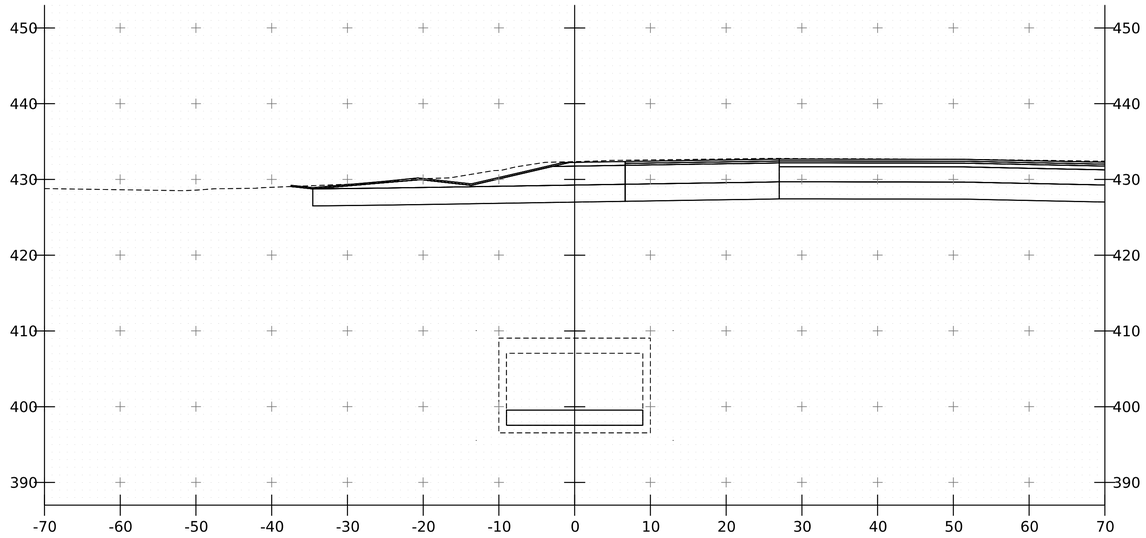

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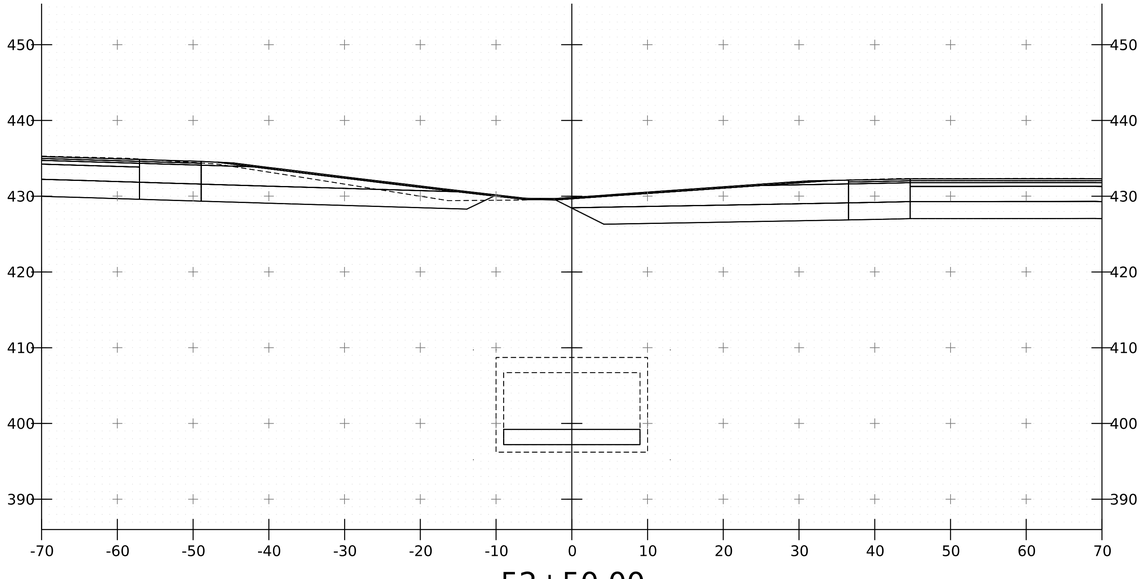

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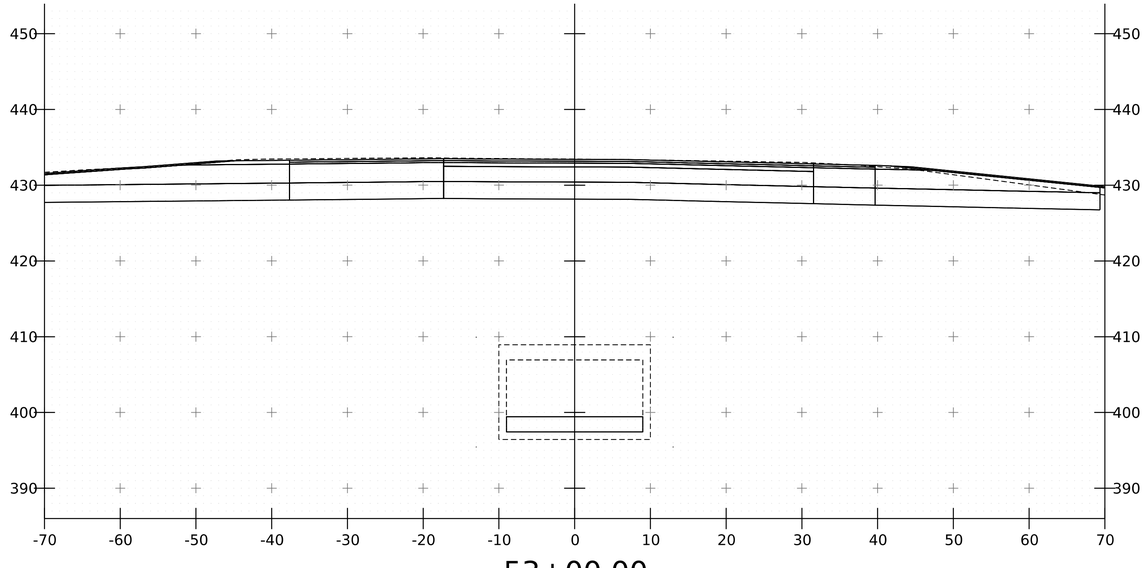

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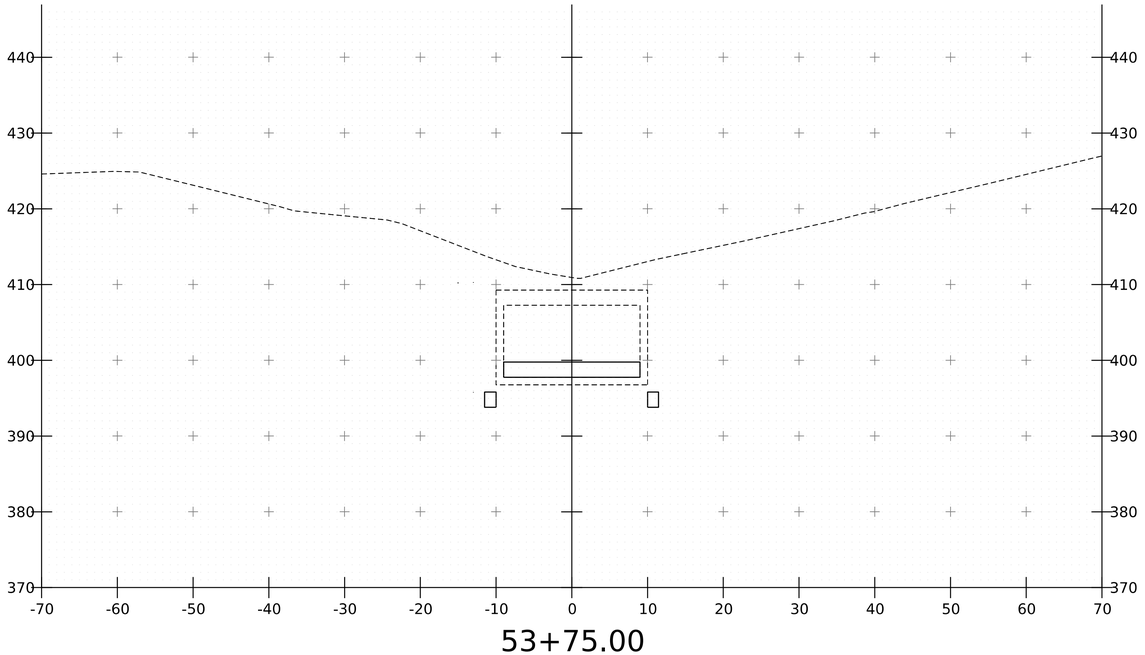
Stantec

PROJECT NAME: FAIRLEE
PROJECT NUMBER: IM 091-2(91)

FILE NAME: 21a024_xs_Channel.dgn
PROJECT LEADER: J. GRIGAS
DESIGNED BY: K. RICHARDSON
CHANNEL XS SHEET 4

PLOT DATE: 4/3/2024
DRAWN BY: P.ARMATA
CHECKED BY: J. GRIGAS
SHEET 72 OF 100



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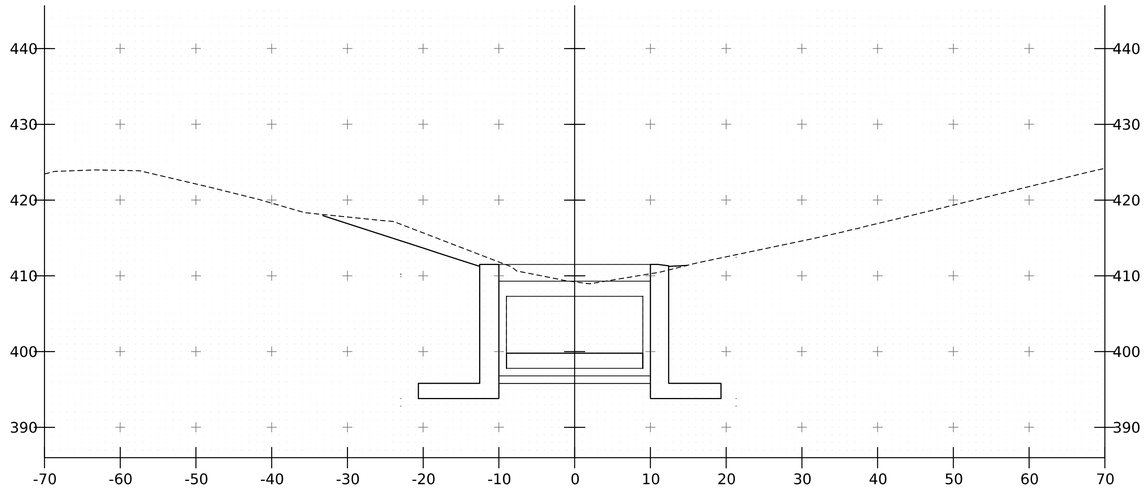
BEGIN CHANNEL EXCAVATION
GEOTEXTILE UNDER STONE FILL
STONE FILL, TYPE II



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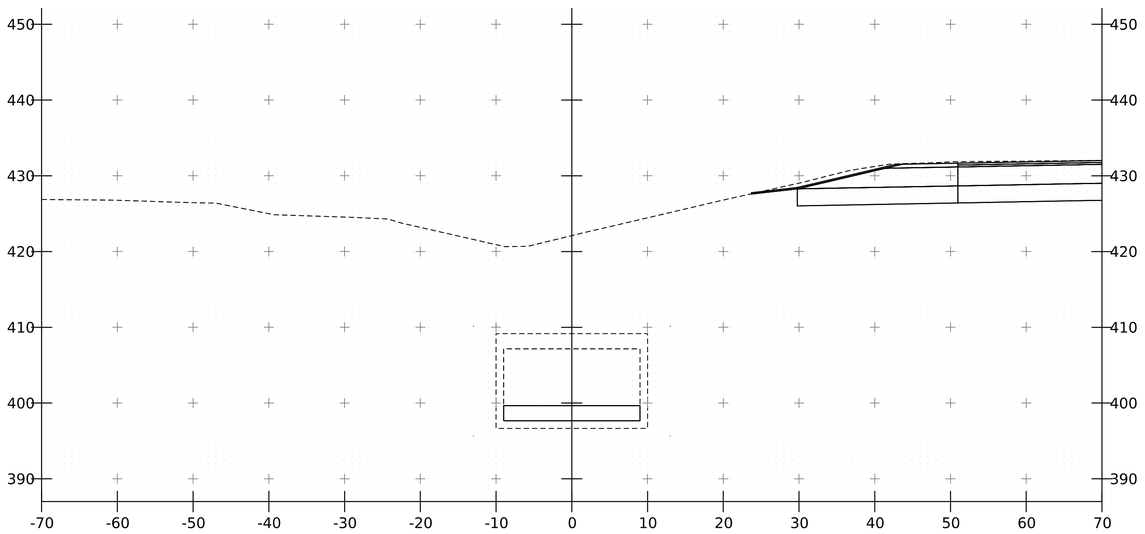

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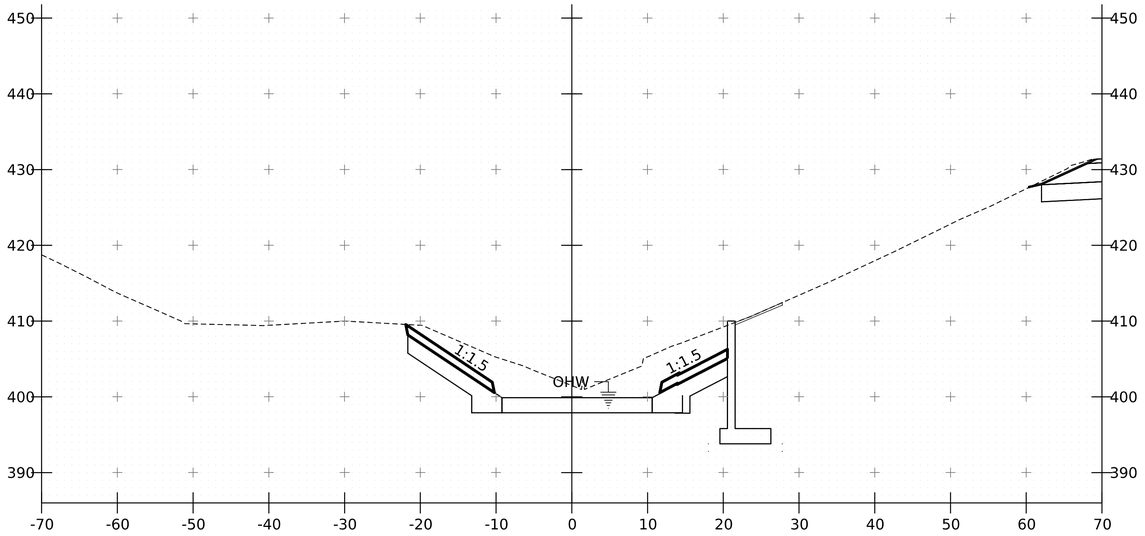
Stantec

PROJECT NAME:	FAIRLEE
PROJECT NUMBER:	IM 091-2(91)

FILE NAME:	21a024_xs_Channel.dgn	PLOT DATE:	4/3/2024
PROJECT LEADER:	J. GRIGAS	DRAWN BY:	P.ARMATA
DESIGNED BY:	K. RICHARDSON	CHECKED BY:	J. GRIGAS
CHANNEL XS SHEET 5		SHEET 73 OF 100	



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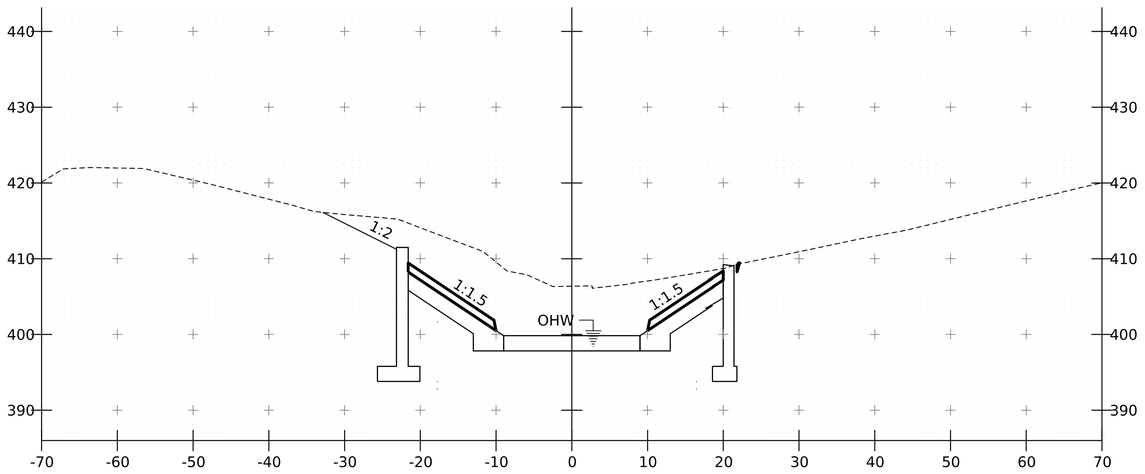

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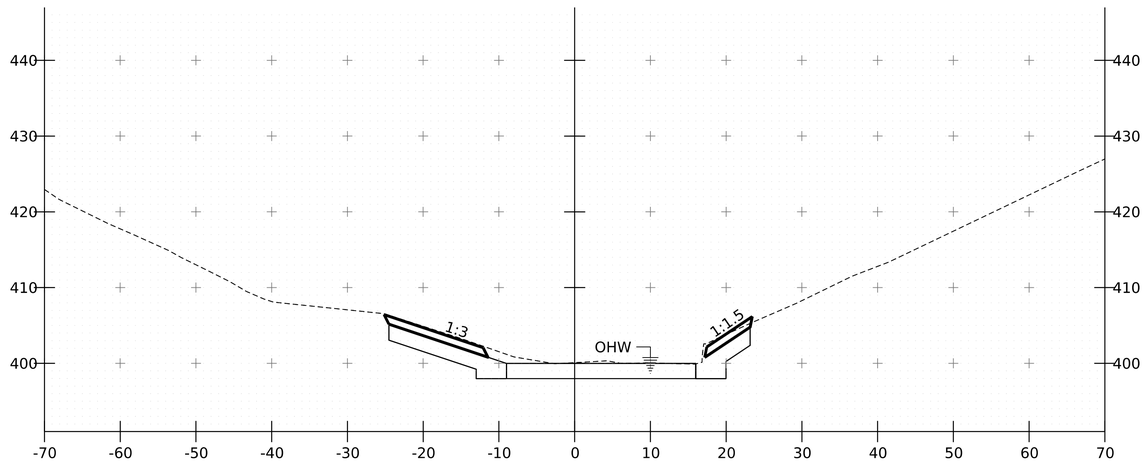
E-STONE FILL, TYPE II



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Stantec

PROJECT NAME: FAIRLEE
PROJECT NUMBER: IM 091-2(91)

FILE NAME: 21a024_xs_Channel.dgn
PROJECT LEADER: J. GRIGAS
DESIGNED BY: K. RICHARDSON
CHANNEL XS SHEET 6

PLOT DATE: 4/3/2024
DRAWN BY: P.ARMATA
CHECKED BY: J. GRIGAS
SHEET 74 OF 100

EPSC PLAN NARRATIVE

1. PROJECT DESCRIPTION

THIS PROJECT INVOLVES REPLACEMENT OF BRIDGES 55-2 AND 55-3 WITH A PRECAST CONCRETE STRUCTURE AND CONSTRUCTION OF TEMPORARY CROSSOVERS, ALONG WITH RELATED APPROACH ROADWAY AND CHANNEL WORK.

IT IS ANTICIPATED THAT CONSTRUCTION WILL LAST 24 MONTHS.

2. AMOUNT OF DISTURBANCE AND RISK EVALUATION

TOTAL AREA OF DISTURBANCE AS SHOWN ON THE ATTACHED EPSC PLAN IS APPROXIMATELY 3.92 ACRES.

THE MAXIMUM CONCURRENT EARTH DISTURBANCE USED TO SCORE THIS PROJECT IN THE APPENDIX A RISK ASSESSMENT IS 2 ACRES.

THIS PROJECT REQUIRES COVERAGE UNDER GENERAL PERMIT 3-9020 FOR STORMWATER RUNOFF FROM CONSTRUCTION SITES FOR LOW RISK PROJECTS.

ANY MODIFICATIONS TO THE PROJECT THAT INCREASE THE RISK TO ENVIRONMENTAL RESOURCES SHALL BE EVALUATED IN ACCORDANCE WITH THE PERMIT REQUIREMENTS. THE CONTRACTOR WILL BE RESPONSIBLE FOR ANY ADDITIONAL PERMITTING.

3. MAJOR COMPONENTS AND SEQUENCING

THE CONTRACTOR SHALL SEQUENCE CONSTRUCTION ACTIVITIES TO MINIMIZE THE EXTENT OF DISTURBED SOILS LEFT OPEN TO EROSION AT ANY GIVEN TIME.

4. SITE DESCRIPTION
4.1 VEGETATED BUFFERS

MAINTAINING VEGETATED BUFFERS ALONG STREAM BANKS, WETLANDS, OR OTHER SENSITIVE AREAS IS A CRUCIAL EROSION AND SEDIMENT CONTROL MEASURE THAT SHOULD BE IMPLEMENTED WHEREVER POSSIBLE.

THIS PROJECT DOES NOT RELY ON VEGETATED BUFFERS AS A MITIGATING RISK FACTOR.

4.2 STREAM CROSSINGS

THIS PROJECT INCLUDES 1 STREAM CROSSING, AS DESCRIBED IN SECTION 5.1 BELOW. WORK WITHIN THE WATER IS BEING CONSULTED THROUGH THE VANR DEC RIVER MANAGEMENT PROGRAM AND AUTHORIZED THROUGH THE US ARMY CORPS OF ENGINEERS

4.3 WETLANDS

THE PROJECT INVOLVES 12,794 SF OF WETLAND AND 23,997 SF OF WETLAND BUFFER. THIS WORK WITHIN THESE AREAS IS BEING AUTHORIZED THROUGH THE VANR WETLANDS OFFICE AND/ OR THE US ARMY CORPS OF ENGINEERS.

4.4 TOPOGRAPHY

THE TOPOGRAPHY OF THE PROJECT AREA IS GENERALLY INTERSTATE HIGHWAY. NO EXITS, BUSINESSES, OR RESIDENCES ARE LOCATED WITHIN THE PROJECT AREA.

4.5 VEGETATION

THE VEGETATION IN THE PROJECT AREA CONSISTS OF GRASSES, WOOODED AREAS, AND THE LAKE MOREY OUTLET THE IMPACT TO VEGETATION WILL BE LIMITED TO WHAT IS DIRECTLY AFFECTED BY THE PROJECT. UPON COMPLETION, THE DISTURBED VEGETATION WILL BE REESTABLISHED WITH STANDARD SEED AND MULCH PRACTICES AS DESCRIBED IN THE TURF ESTABLISHMENT DETAIL, UNLESS NOTED OTHERWISE.

4.6 SOILS

SOIL EROSION DATA FROM THE U.S. DEPARTMENT OF AGRICULTURE NATURAL RESOURCES CONSERVATION SERVICE INDICATES THAT SOILS ON THE PROJECT SITE INCLUDE:

TUNBRIDGE-WOODSTOCK COMPLEX, 25% TO 50% SLOPES, “K FACTOR” = 0.24
AGAWAM FINE SANDY LOAM, 3% TO 8% SLOPES, “K FACTOR” = 0.37
QUOSNSET AND WARWICK, 2% TO 8% SLOPES, “K FACTOR” = 0.24
WINDSOR LOAMY SAND, 8% TO 25% SLOPES, “K FACTOR” = 0.15
WALPOLE FINE SANDY LOAM, “K FACTOR” = 0.28

NOTE: K-VALUES GENERALLY INDICATE THE FOLLOWING:
0.0-0.23 = LOW EROSION POTENTIAL
0.24-0.36 = MODERATE EROSION POTENTIAL
0.37 AND HIGHER = HIGH EROSION POTENTIAL

IF POTENTIALLY CONTAMINATED SOILS HAVE BEEN IDENTIFIED WITHIN THE PROJECT AREA, THE CONTRACTOR SHALL REFER TO THE NOTICE TO BIDDERS AND/ OR SOIL MANAGEMENT PLAN FOR MEASURES RELATED TO THE HANDLING OF SUCH SOILS.

4.7 OTHER SENSITIVE RESOURCES

RARE, THREATENED AND ENDANGERED (RTE) SPECIES HAVE BEEN IDENTIFIED WITHIN A ONE-MILE RADIUS OF THE PROJECT AREA:

- WHORLED WATER-MILFOIL (MYRIOPHYLLUM VERTICILLATUM)
- RIVERINE CLUBTAIL (STYLURUS AMNICOLA)
- COBRA CLUBTAIL (GOMPHURUS VASTUS)
- RAPIDS CLUBTAIL (PHANOGOMPHUS QUADRICOLOR)

5. DRAINAGE
5.1 RECEIVING WATERS

THE LAKE MOREY OUTFLOW IS THE ONLY WATER SOURCE ON THE PROJECT SITE. RESIDENCES AND BUSINESSES WATER SUPPLIES ARE FROM MUNICIPAL WATER. THE OUTFLOW IS CLASSIFIED AS GRADUAL, SINUOUS, NARROW, WITH A CONFINED AND UNARMORED CHANNEL AT THE SITE. THE STREAM BED CONSISTS OF GRAVEL.

5.2 DISCHARGE POINTS

THERE ARE THREE DISCHARGE POINTS NEAR THE PROJECT AREA. THESE ARE OUTFALLS FROM INTERSTATE STORMWATER COLLECTION STRUCTURES. THE DISCHARGE POINTS WILL NOT BE IMPACTED BY CONSTRUCTION AND THE INLETS WILL BE COVERED WITH FILTER FIBER DURING CONSTRUCTION. DROP INLETS WITHIN THE SLOPE LIMITS OF THE CROSSOVERS WILL BE COVERED AND PROTECTED DURING CONSTRUCTION. TEMPORARY CULVERTS WILL BE INSTALLED TO CONVEY DRAINAGE WHILE THE CROSSOVERS ARE CONSTRUCTED.

5.3 CONVEYANCE/ FLOW PATH FROM PROJECT TO WATERS

THE MAJORITY OF THE PROJECT IS NOT CURBED AND RUNOFF DRAINS OVERLAND ACROSS ADJACENT VEGETATED SIDE SLOPES BEFORE REACHING THE RECEIVING WATER. THERE ARE ALSO NUMEROUS DROP INLETS ON SITE THAT COLLECT ROADWAY RUNOFF AND DRAIN TO STONE LINED OUTFALLS BEFORE FLOWING TO THE LAKE MOREY OUTFLOW.

6. EROSION PREVENTION AND SEDIMENT CONTROL MEASURES

THE MEASURES INCLUDED IN THIS PLAN ARE PROVIDED AS A GUIDELINE FOR PREVENTING EROSION AND CONTROLLING SEDIMENT TRANSPORT. IT IS EXPECTED THAT THE CONTRACTORS MAY USE THIS PLAN, WITH ADJUSTMENTS AS NECESSARY, BASED ON THEIR SPECIFIC MEANS AND METHODS OF CONSTRUCTION.

APPLYING THESE MEASURES THROUGHOUT CONSTRUCTION IS CRITICAL TO THEIR SUCCESS IN MINIMIZING SEDIMENT TRANSPORT TO THE RECEIVING WATERS. REFER TO THE DETAILS INCLUDED IN THESE PLANS AND THE DEPARTMENT OF ENVIRONMENTAL CONSERVATION’S VERMONT STANDARDS AND SPECIFICATIONS FOR EROSION PREVENTION AND SEDIMENT CONTROL FOR SPECIFIC GUIDANCE.

6.1 IDENTIFY LIMITS OF DISTURBANCE

SITE BOUNDARIES AND AREAS CONSTRUCTION EQUIPMENT CAN ACCESS SHALL BE DELINEATED.

PROJECT DEMARCATION FENCING (PDF) SHALL BE USED TO PHYSICALLY MARK SITE BOUNDARIES. BARRIER FENCE SHALL BE USED INSTEAD OF PROJECT DEMARCATION FENCE WITHIN 100 FEET OF A WATER RESOURCE (STREAM, BROOK, LAKE, POND, WETLAND, ETC).

6.2 LIMIT CONCURRENT DISTURBANCE

LIMITING THE AMOUNT OF SOIL EXPOSED AT ONE TIME REDUCES THE POTENTIAL EROSION ON SITE. CONCURRENT EARTH DISTURBANCE CAN BE MINIMIZED THROUGH CONSTRUCTION PHASING BY ONLY DISTIRBING EARTH AS NECESSARY AND EMPLOYING STABILIZATION PRACTICES IN INCREMENTAL STAGES AS PHASES CHANGE.

6.3 STABILIZE DISTURBED AREAS
6.3.1 ACCESS POINTS/ ENTRANCE/ EXITS

TRACKING OF SEDIMENT ONTO PUBLIC HIGHWAYS SHALL BE MINIMIZED TO REDUCE THE POTENTIAL FOR RUNOFF ENTERING RECEIVING WATERS. INSTALLATION SHALL COINCIDE WITH THE CONTRACTORS PROGRESS SCHEDULE.

STABILIZED CONSTRUCTION ENTRANCES ARE ANTICIPATED ON THIS PROJECT AND SHALL BE LOCATED AS SHOWN ON THIS EPSC PLAN AND ANYWHERE EQUIPMENT WILL BE GOING FROM AREAS OF EXPOSED SOILS TO PAVED SURFACES.

Stantec

PROJECT NAME:	FAIRLEE
PROJECT NUMBER:	IM 091-1(91)
FILE NAME: z21a024_frm.dgn	PLOT DATE: 3-APR-2024
PROJECT LEADER: J. GRIGAS	DRAWN BY: D. DRAPER
DESIGNED BY: J. GRIGAS	CHECKED BY: J. GRIGAS
EPSC - NARRATIVE SHEET 1	SHEET 75 OF 100

6.3.2 TEMPORARY MEASURES FOR EXPOSED AREAS DURING CONSTRUCTION

ALL AREAS OF EARTH DISTURBANCE MUST HAVE STABILIZATION IN PLACE WITHIN 14 DAYS OF INITIAL DISTURBANCE AND DISTURBED AREAS MUST BE STABILIZED IN ADVANCE OF ANY RUNOFF PRODUCING EVENT.

SURFACE ROUGHENING OF EXPOSED SLOPES, SEEDING OF TEMPORARY SLOPES AND STOCKPILES, AND STANDARD MULCHING PRACTICES DESCRIBED IN SPECIFICATION SECTION 653.07 SHALL BE UTILIZED TO TEMPORARILY STABILIZE DISTURBED AREAS.

6.3.3 PERMANENT STABILIZATION AT FINAL GRADE

EXPOSED SOIL MUST BE STABILIZED WITHIN 48 HOURS OF REACHING FINAL GRADE.

TURF ESTABLISHMENT MEASURES PER SECTION 651 OF THE STANDARD SPECIFICATIONS FOR CONSTRUCTION SHALL BE USED TO ESTABLISH PERMANENT VEGETATION. FOR SLOPES STEEPER THAN 1:3, ROLLED EROSION CONTROL PRODUCT, TYPE I SHALL BE USED INSTEAD OF MULCH.

6.4 DIVERT UPLAND RUNOFF

DIVERSIONARY MEASURES SHALL BE USED TO INTERCEPT RUNOFF FROM ABOVE THE CONSTRUCTION AND DIRECT IT AROUND THE DISTURBED AREA SO THAT CLEAN WATER DOES NOT BECOME MUDDIED WHILE TRAVELING OVER EXPOSED SOILS ON THE CONSTRUCTION SITE.

THE PROJECT AREA IS RELATIVELY FLAT. RUNOFF FROM OUTSIDE OF THE PROJECT AREA IS NOT ANTICIPATED.

6.5 INSTALL SEDIMENT BARRIERS

SEDIMENT BARRIERS SHALL BE UTILIZED TO INTERCEPT RUNOFF AND ALLOW SUSPENDED SEDIMENT TO SETTLE OUT. THEY SHALL BE INSTALLED ON THE DOWNHILL SIDE OF CONSTRUCTION ACTIVITIES, PRIOR TO ANY UP-SLOPE WORK.

SILT FENCE WILL BE INSTALLED ALONG THE CONTOURS AND AS PROPOSED ON THE EPSC PLAN. SILT FENCE, TYPE II SHALL BE USED WITHIN 100 FEET UPSLOPE OF RECEIVING WATERS.

6.6 SLOW DOWN CHANNELIZED RUNOFF

CHECK STRUCTURES SHALL BE UTILIZED TO REDUCE THE VELOCITY, AND THUS THE EROSIVE POTENTIAL, OF CONCENTRATED FLOW IN CHANNELS.

IT IS NOT ANTICIPATED THAT TEMPORARY STONE CHECK DAMS WILL BE REQUIRED FOR THIS PROJECT.

7. CONSTRUCT PERMANENT CONTROLS

PERMANENT STORMWATER TREATMENT DEVICES SHALL BE INSTALLED AS SHOWN ON THE PLANS AND IN ACCORDANCE WITH PERMIT CONDITIONS.

PERMANENT STORMWATER TREATMENT DEVICES ARE NOT ANTICIPATED TO BE NEEDED AS DESIGNED.

8. DEWATERING

DISCHARGE FROM DEWATERING ACTIVITIES THAT FLOWS FROM THE CONSTRUCTION SITE MUST NOT CAUSE OR CONTRIBUTE TO A VIOLATION OF THE VERMONT WATER QUALITY STANDARDS. DEWATERED STORMWATER OR GROUNDWATER MUST BE FILTERED AND ROUTED IN A MANNER THAT DOES NOT RESULT IN VISIBLY TURBID DISCHARGES TO WATERS.

DEWATERING OF SURFACE WATER IS NOT ANTICIPATED.

9. OFF-SITE AREAS

OFF-SITE WASTE AND BORROW AREAS HAVE NOT BEEN IDENTIFIED FOR THIS PROJECT. IT WILL BE THE CONTRACTOR'S RESPONSIBILITY TO IDENTIFY AND PERMIT, AS NECESSARY, ANY OFF-SITE AREAS THAT ARE NEEDED IN ACCORDANCE WITH STANDARD SPECIFICATIONS 105.25 - 105.28.

ALL EROSION PREVENTION AND SEDIMENT CONTROL MEASURES NECESSARY FOR WASTE, BORROW, AND STAGING AREAS OUTSIDE THE PROJECT LIMITS SHALL BE PAID FOR PER 105.28 OF THE STANDARD SPECIFICATIONS FOR CONSTRUCTION.

VEHICLE AND EQUIPMENT STORAGE AREAS OR AREAS ADJACENT TO CONSTRUCTION TRAILERS OR OTHER HIGH TRAFFIC AREAS SHALL BE COVERED WITH GEOTEXTILE FABRIC AND 12" OF GRAVEL. FOLLOWING COMPLETION OF CONSTRUCTION, ALL NON-NATIVE MATERIALS SHALL BE REMOVED FROM THE STAGING AREA. COMPACTED, RUTTED, OR OTHERWISE DISTURBED SOILS SHALL BE TILLED, RAKED, SEEDED, AND MULCHED.

ERODIBLE MATERIALS STOCKPILED WITHIN THE MATERIAL STORAGE AREAS SHALL BE ISOLATED WITH SILT FENCE OR OTHER ACCEPTABLE SEDIMENT BARRIER. SOIL STOCKPILED ON THE SITE SHALL BE SEEDED AND MULCHED.

10. WINTER CONSTRUCTION

IF CONSTRUCTION ACTIVITIES ARE TAKING PLACE BETWEEN OCTOBER 15 AND APRIL 15, THE CONTRACTOR SHALL FOLLOW REQUIREMENTS FOR WINTER CONSTRUCTION, AS DEFINED IN SPECIFIC PERMIT CONDITIONS AND AS FOLLOWS:

- ENLARGED ACCESS POINTS, STABILIZED TO PROVIDE FOR SNOW STOCKPILING.
- LIMITS OF DISTURBANCE MOVED OR REPLACED TO REFLECT BOUNDARY OF WINTER WORK.
- DEVELOPMENT OF A SNOW MANAGEMENT PLAN THAT INCLUDES:
  - ADEQUATE STORAGE AND CONTROL OF MELT-WATER
  - STORAGE OF CLEARED SNOW TO BE PLACED DOWN SLOPE OF DISTURBED AREAS AND OUT OF STORMWATER TREATMENT STRUCTURES
- AREAS OF DISTURBANCE WITHIN 100 FT OF A WATERBODY MUST HAVE REINFORCED (WOVEN WIRE) SILT FENCE INSTALLED ACROSS THE SLOPE, DOWNGRADIENT OF THE EARTH DISTURBANCE. ALTERNATIVELY, REGULAR, NON-WOVEN WIRE SILT FENCE MAY BE USED IF COMBINED WITH EROSION CONTROL BERM, EROSION LOG, OR STRAW WATTLE.
- DRAINAGE STRUCTURES MUST BE KEPT OPEN AND FREE OF SNOW AND ICE DAMS.
- SILT FENCE AND OTHER PRACTICES REQUIRING EARTH DISTURBANCE MUST BE INSTALLED PRIOR TO FROZEN GROUND.
- MULCH TO BE APPLIED AT A MINIMUM OF 2 INCHES DEPTH WITH 80-90% COVERAGE.
- AREAS OF DISTURBED SOILS MUST BE STABILIZED PRIOR TO ANY RUNOFF-PRODUCING EVENT, WITH THE FOLLOWING EXCEPTION:
  - STABILIZATION IS NOT REQUIRED IF THE WORK IS OCCURRING IN A SELF-CONTAINED EXCAVATION WITH NO OUTLET AND A DEPTH OF 2 FT OR GREATER (OPEN UTILITY TRENCHES), PROVIDED THAT ANY DEWATERING, IF NECESSARY, IS CONDUCTED AS REQUIRED.
- PRIOR TO STABILIZATION, SNOW OR ICE MUST BE REMOVED TO LESS THAN 1" THICKNESS.
- USE STONE TO STABILIZE AREAS WHERE CONSTRUCTION VEHICLE TRAFFIC IS ANTICIPATED.

11. INSPECTION AND MAINTENANCE

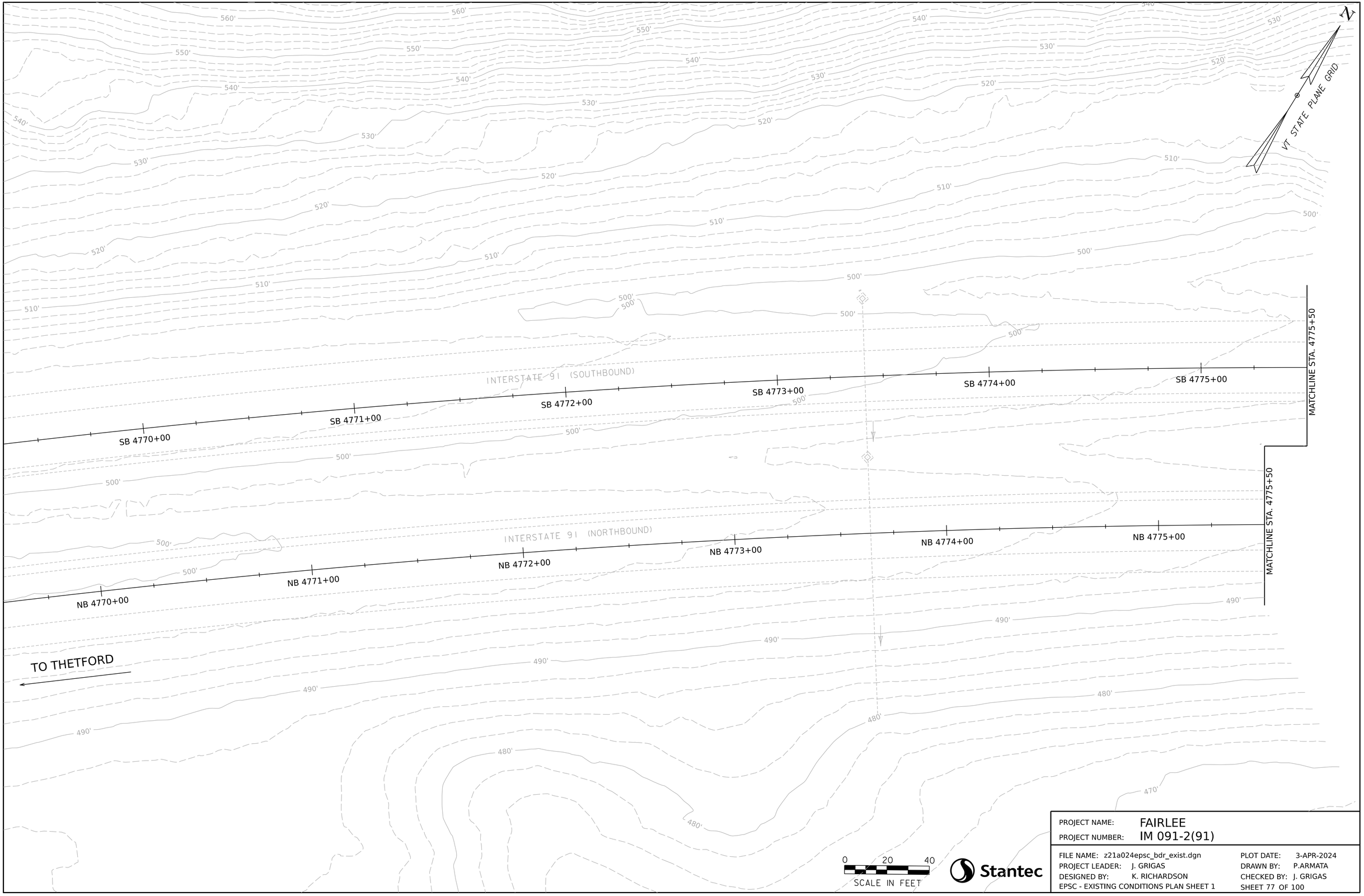
INSPECTION AND MONITORING OF THE PROJECT'S EPSC MEASURES SHALL BE CONDUCTED IN ACCORDANCE WITH STANDARD SPECIFICATION 653.04 MONITORING EROSION PREVENTION AND SEDIMENT CONTROL PLAN, ALONG WITH PERMIT SPECIFIC INSPECTION REQUIREMENTS.

CONTRACTORS SHALL PROVIDE A COPY OF THEIR INSPECTION FORM AS PART OF THEIR EPSC PLAN.

ALL EPSC MEASURES SHALL BE REGULARLY MAINTAINED AND SHALL BE CHECKED FOR SEDIMENT BUILD-UP. SEDIMENT SHALL BE DISPOSED AT AN APPROVED SITE WHERE IT WILL NOT BE SUBJECT TO EROSION.

Stantec

PROJECT NAME:	FAIRLEE
PROJECT NUMBER:	IM 091-2(91)
FILE NAME: z21a024_frm.dgn	PLOT DATE: 3-APR-2024
PROJECT LEADER: J. GRIGAS	DRAWN BY: D. DRAPER
DESIGNED BY: J. GRIGAS	CHECKED BY: J. GRIGAS
EPSC- NARRATIVE SHEET 2	SHEET 76 OF 100



Stantec

PROJECT NAME:	FAIRLEE
PROJECT NUMBER:	IM 091-2(91)

FILE NAME:	z21a024epsc_bdr_exist.dgn	PLOT DATE:	3-APR-2024
PROJECT LEADER:	J. GRIGAS	DRAWN BY:	P.ARMATA
DESIGNED BY:	K. RICHARDSON	CHECKED BY:	J. GRIGAS
EPSC - EXISTING CONDITIONS PLAN SHEET 1		SHEET 77 OF 100	

N

VT STATE PLANE GRID

INTERSTATE 91 (SOUTHBOUND)

MATCHLINE STA. 4775+50

SB 4776+00

SB 4777+00

SB 4778+00

SB 4779+00

SB 4780+00

SB 47

MATCHLINE STA. 4781+00

INTERSTATE 91 (NORTHBOUND)

MATCHLINE STA. 4775+50

NB 4776+00

NB 4777+00

NB 4778+00

NB 4779+00

NB 4780+00

NB 47

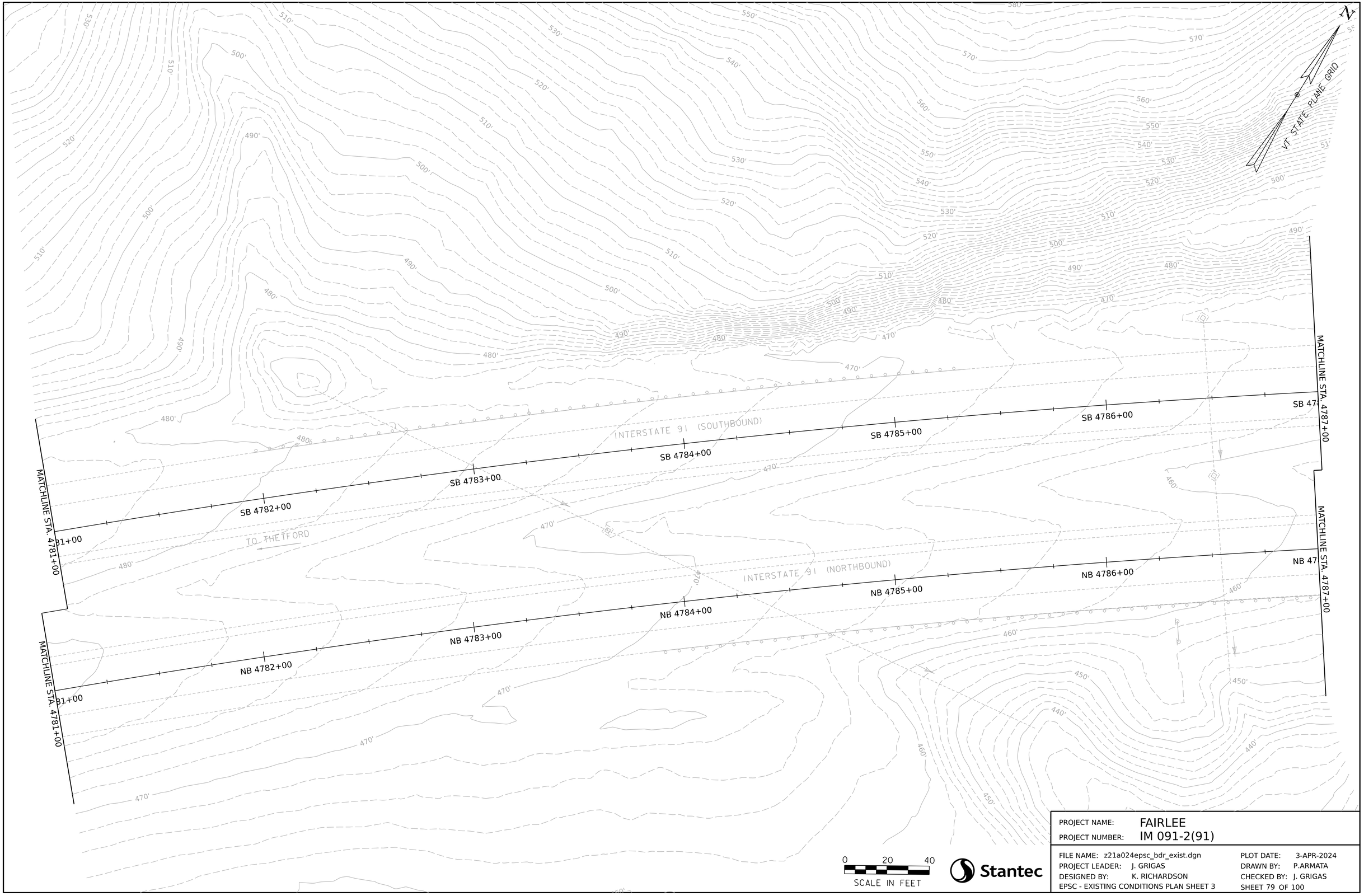
MATCHLINE STA. 4781+00

0 20 40

SCALE IN FEET

Stantec

PROJECT NAME:	FAIRLEE
PROJECT NUMBER:	IM 091-2(91)
FILE NAME: z21a024epsc_bdr_exist.dgn	PLOT DATE: 3-APR-2024
PROJECT LEADER: J. GRIGAS	DRAWN BY: P.ARMATA
DESIGNED BY: K. RICHARDSON	CHECKED BY: J. GRIGAS
EPSC - EXISTING CONDITIONS PLAN SHEET 2	SHEET 78 OF 100



Stantec

PROJECT NAME:	FAIRLEE
PROJECT NUMBER:	IM 091-2(91)

FILE NAME:	z21a024epsc_bdr_exist.dgn	PLOT DATE:	3-APR-2024
PROJECT LEADER:	J. GRIGAS	DRAWN BY:	P.ARMATA
DESIGNED BY:	K. RICHARDSON	CHECKED BY:	J. GRIGAS
EPSC - EXISTING CONDITIONS PLAN SHEET 3		SHEET 79 OF 100	

APPROX. EXISTING R.O.W.

SOIL CONDITIONS
TUNBRIDGE-WOODSTOCK COMPLEX
25%-50% SLOPES
MODERATE EROSION POTENTIAL
K = 0.24

SOIL CONDITIONS
AGAWAM FINE SANDY LOAM
3%-8% SLOPES
MODERATE EROSION POTENTIAL
K = 0.37

N

VT STATE PLANE GRID

APPROXIMATE TOPOGRAPHY FROM LIDAR

LIMIT OF SURVEY

INTERSTATE 91 (SOUTHBOUND)

SB 4788+00 | SB 4789+00 | SB 4790+00 | SB 4791+00 | SB 4792+00 | SB 47

MATCHLINE STA. 4787+00

PT 4789+79.30

MATCHLINE STA. 4793+00

INTERSTATE 91 (NORTHBOUND)

NB 4788+00 | NB 4789+00 | NB 4790+00 | NB 4791+00 | NB 4792+00 | NB 47

MATCHLINE STA. 4787+00

PT 4789+79.00

APPROXIMATE TOPOGRAPHY FROM LIDAR

LIMIT OF SURVEY

SOIL CONDITIONS
WALPOLE FINE SANDY LOAM

MODERATE EROSION POTENTIAL
K = 0.28

APPROX. EXISTING R.O.W.

0 20 40
SCALE IN FEET

Stantec

PROJECT NAME: FAIRLEE
PROJECT NUMBER: IM 091-2(91)

FILE NAME: z21a024epsc_bdr_exist.dgn
PROJECT LEADER: J. GRIGAS
DESIGNED BY: K. RICHARDSON
EPSC - EXISTING CONDITIONS PLAN SHEET 4

PLOT DATE: 3-APR-2024
DRAWN BY: P.ARMATA
CHECKED BY: J. GRIGAS
SHEET 80 OF 100

SOIL CONDITIONS
QUOSNSET AND WARWICK
2%-8% SLOPES
LOW EROSION POTENTIAL
K = 0.24

SOIL CONDITIONS
WINDSOR LOAMY SAND
8%-25% SLOPES
LOW EROSION POTENTIAL
K = 0.15

APPROX. EXISTING R.O.W.

VT STATE PLANE GRID

OHW

MHO

HABITAT

INTERSTATE 91 (SOUTHBOUND)

N58°18'05"E

SB 4794+00 SB 4795+00 SB 4796+00 SB 4797+00 SB 4798+00

MATCHLINE STA. 4793+00

MATCHLINE STA. 4799+00

SOIL CONDITIONS
WALPOLE FINE SANDY LOAM

MODERATE EROSION POTENTIAL
K = 0.28

INTERSTATE 91 (NORTHBOUND)

N58°18'05"E

NB 4794+00 NB 4795+00 NB 4796+00 NB 4797+00 NB 4798+00

SOIL CONDITIONS
AGAWAM FINE SANDY LOAM
3%-8% SLOPES
MODERATE EROSION POTENTIAL
K = 0.37

0 20 40
SCALE IN FEET

Stantec

PROJECT NAME: FAIRLEE
PROJECT NUMBER: IM 091-2(91)

FILE NAME: z21a024epsc_bdr_exist.dgn
PROJECT LEADER: J. GRIGAS
DESIGNED BY: K. RICHARDSON
EPSC - EXISTING CONDITIONS PLAN SHEET 5

PLOT DATE: 3-APR-2024
DRAWN BY: P.ARMATA
CHECKED BY: J. GRIGAS
SHEET 81 OF 100

SOIL CONDITIONS
WALPOLE FINE SANDY LOAM

MODERATE EROSION POTENTIAL
K = 0.28

SOIL CONDITIONS
AGAWAM FINE SANDY LOAM
3%-8% SLOPES
MODERATE EROSION POTENTIAL
K = 0.37

N

VT STATE PLANE GRID

APPROX. EXISTING R.O.W.

LIMIT OF SURVEY

APPROXIMATE TOPOGRAPHY FROM LIDAR

INTERSTATE 91 (SOUTHBOUND)

N58°18'05"E

99+00 | SB 4800+00 | SB 4801+00 | SB 4802+00 | SB 4803+00 | SB 4804+00 | SB 48

MATCHLINE STA. 4799+00

MATCHLINE STA. 4805+00

INTERSTATE 91 (NORTHBOUND)

N58°18'05"E

99+00 | NB 4800+00 | NB 4801+00 | NB 4802+00 | NB 4803+00 | NB 4804+00 | NB 48

LIMIT OF SURVEY

APPROXIMATE TOPOGRAPHY FROM LIDAR

APPROX. EXISTING R.O.W.

0 20 40
SCALE IN FEET

Stantec

PROJECT NAME:	FAIRLEE
PROJECT NUMBER:	IM 091-2(91)
FILE NAME: z21a024epsc_bdr_exist.dgn	PLOT DATE: 3-APR-2024
PROJECT LEADER: J. GRIGAS	DRAWN BY: P.ARMATA
DESIGNED BY: K. RICHARDSON	CHECKED BY: J. GRIGAS
EPSC - EXISTING CONDITIONS PLAN SHEET 6	SHEET 82 OF 100

N

VT STATE PLANE GRID

PC 4810+86.12

440'

INTERSTATE 91 (SOUTHBOUND)

05+00 | SB 4806+00 | SB 4807+00 | SB 4808+00 | SB 4809+00 | SB 4810+00 | SB 48

MATCHLINE STA. 4805+00

PC 4811+01.08

MATCHLINE STA. 4811+00

INTERSTATE 91 (NORTHBOUND)

05+00 | NB 4806+00 | NB 4807+00 | NB 4808+00 | NB 4809+00 | NB 4810+00 | NB 48

0 20 40

SCALE IN FEET

Stantec

PROJECT NAME: FAIRLEE

PROJECT NUMBER: IM 091-2(91)

FILE NAME: z21a024epsc_bdr_exist.dgn
PROJECT LEADER: J. GRIGAS
DESIGNED BY: K. RICHARDSON
EPSC - EXISTING CONDITIONS PLAN SHEET 7

PLOT DATE: 3-APR-2024
DRAWN BY: P.ARMATA
CHECKED BY: J. GRIGAS
SHEET 83 OF 100

N

VT STATE PLANE GRID

440'

INTERSTATE 91 (SOUTHBOUND)

SB 4811+00

SB 4812+00

SB 4813+00

SB 4814+00

SB 4815+00

SB 4816+00

SB 4817+00

MATCHLINE STA. 4811+00

INTERSTATE 91 (NORTHBOUND)

NB 4811+00

NB 4812+00

NB 4813+00

NB 4814+00

NB 4815+00

NB 4816+00

NB 4817+00

TO BRADFORD

PI 4816+57.73

CURVE (x)
DELTA = 16
D = 01°28'2
R = 3885.00
T = 571.61'
L = 1135.08
E = 41.83'

PI 4816+68.53

CURVE (x)
DELTA = 16°44'24"
D = 01°29'08"
R = 3857.00'
T = 567.49'
L = 1126.90'
E = 41.52'

0 20 40
SCALE IN FEET

Stantec

PROJECT NAME: FAIRLEE
PROJECT NUMBER: IM 091-2(91)

FILE NAME: z21a024epsc_bdr_exist.dgn
PROJECT LEADER: J. GRIGAS
DESIGNED BY: K. RICHARDSON
EPSC - EXISTING CONDITIONS PLAN SHEET 8

PLOT DATE: 3-APR-2024
DRAWN BY: P.ARMATA
CHECKED BY: J. GRIGAS
SHEET 84 OF 100

N

VT STATE PLANE GRID

INTERSTATE 91 (SOUTHBOUND)

SB 4770+00 | SB 4771+00 | SB 4772+00 | SB 4773+00 | SB 4774+00 | SB 4775+00

MATCHLINE STA. 4775+50

INTERSTATE 91 (NORTHBOUND)

NB 4770+00 | NB 4771+00 | NB 4772+00 | NB 4773+00 | NB 4774+00 | NB 4775+00

MATCHLINE STA. 4775+50

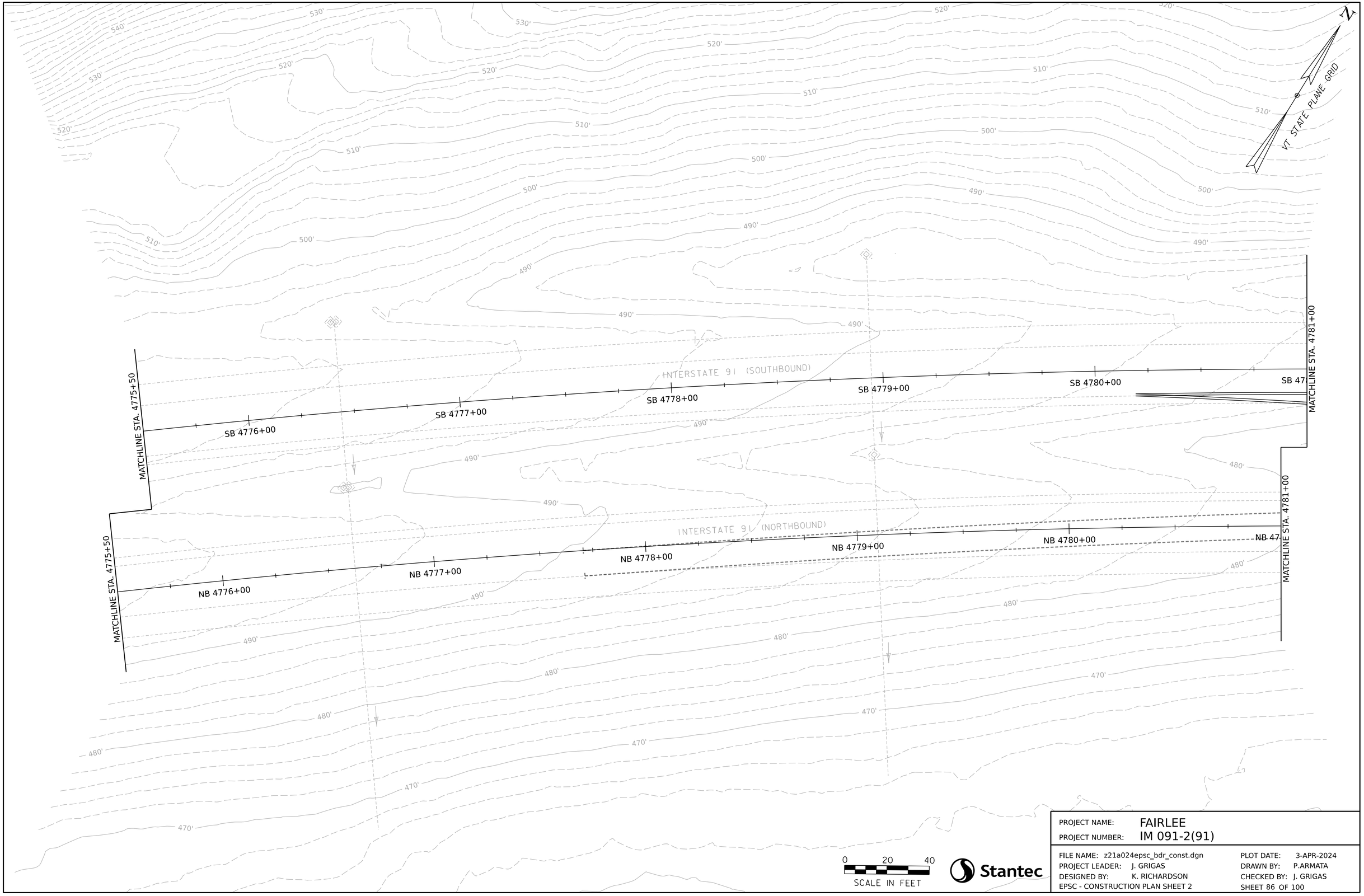
TO THETFORD

0 20 40

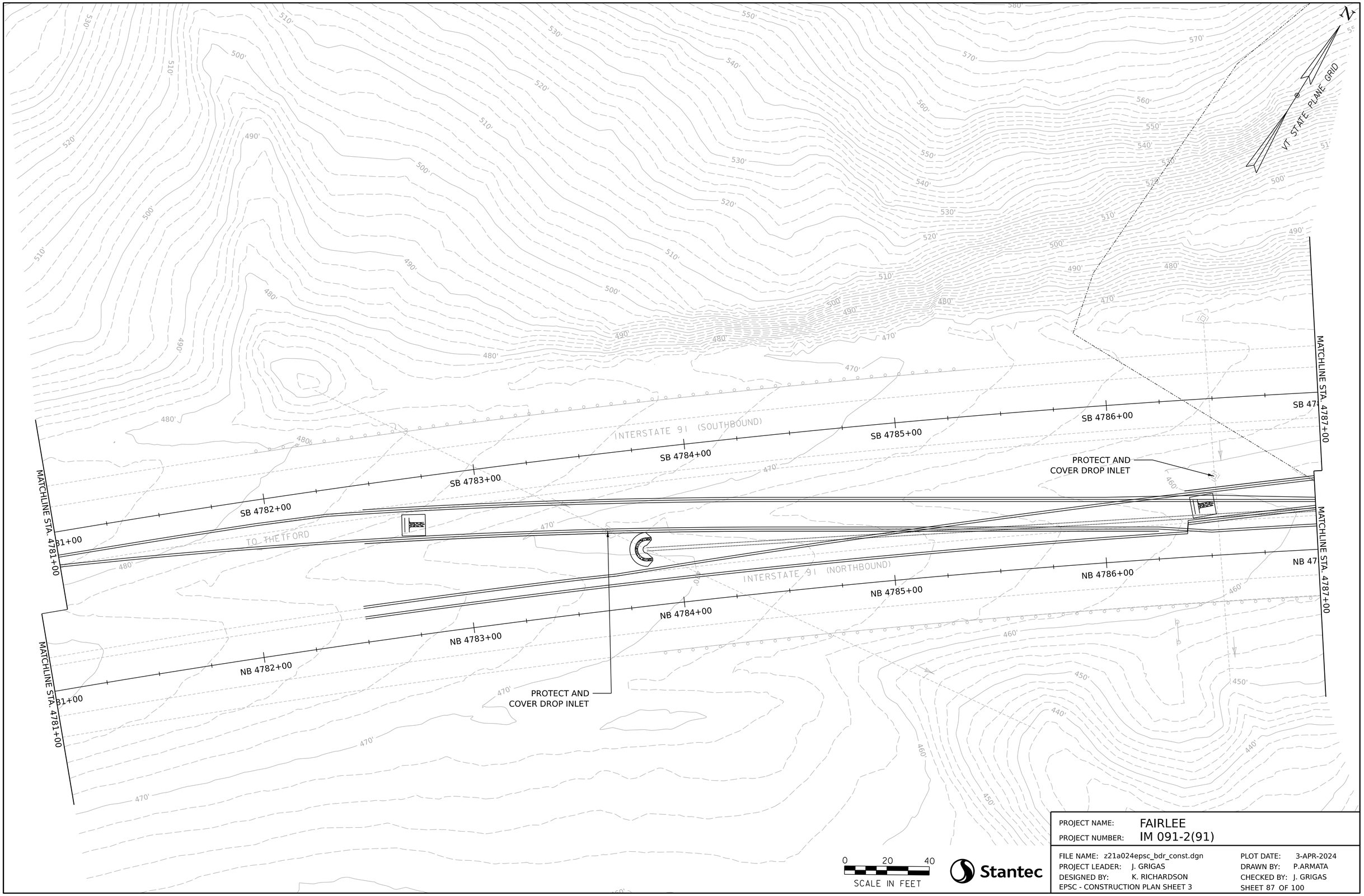
SCALE IN FEET

Stantec

PROJECT NAME:	FAIRLEE
PROJECT NUMBER:	IM 091-2(91)
FILE NAME: z21a024epsc_bdr_const.dgn	PLOT DATE: 3-APR-2024
PROJECT LEADER: J. GRIGAS	DRAWN BY: P.ARMATA
DESIGNED BY: K. RICHARDSON	CHECKED BY: J. GRIGAS
EPSC - CONSTRUCTION PLAN SHEET 1	SHEET 85 OF 100



PROJECT NAME:	FAIRLEE
PROJECT NUMBER:	IM 091-2(91)
FILE NAME: z21a024epsc_bdr_const.dgn	PLOT DATE: 3-APR-2024
PROJECT LEADER: J. GRIGAS	DRAWN BY: P.ARMATA
DESIGNED BY: K. RICHARDSON	CHECKED BY: J. GRIGAS
EPSC - CONSTRUCTION PLAN SHEET 2	SHEET 86 OF 100



PROJECT NAME:	FAIRLEE
PROJECT NUMBER:	IM 091-2(91)
FILE NAME: z21a024epsc_bdr_const.dgn	PLOT DATE: 3-APR-2024
PROJECT LEADER: J. GRIGAS	DRAWN BY: P.ARMATA
DESIGNED BY: K. RICHARDSON	CHECKED BY: J. GRIGAS
EPSC - CONSTRUCTION PLAN SHEET 3	SHEET 87 OF 100

APPROX. EXISTING R.O.W.

PROTECT AND COVER
DROP INLET

INTERSTATE 91 (SOUTHBOUND)

SB 4787+00
SB 4788+00
SB 4789+00
SB 4790+00
SB 4791+00
SB 4792+00
SB 4793+00

MATCHLINE STA. 4787+00

MATCHLINE STA. 4793+00

PT 4789+79.30

INTERSTATE 91 (NORTHBOUND)

NB 4787+00
NB 4788+00
NB 4789+00
NB 4790+00
NB 4791+00
NB 4792+00
NB 4793+00

PT 4789+79.00

APPROX. EXISTING R.O.W.

VT STATE PLANE GRID

PDF

BF

HDPE

0 20 40
SCALE IN FEET

Stantec

PROJECT NAME:	FAIRLEE
PROJECT NUMBER:	IM 091-2(91)
FILE NAME: z21a024epsc_bdr_const.dgn	PLOT DATE: 3-APR-2024
PROJECT LEADER: J. GRIGAS	DRAWN BY: P.ARMATA
DESIGNED BY: K. RICHARDSON	CHECKED BY: J. GRIGAS
EPSC - CONSTRUCTION PLAN SHEET 4	SHEET 88 OF 100

APPROX. EXISTING R.O.W.

CONCEPTUAL ACCESS ROAD AND STAGING AREA

PDF

BF

N36°23'12"E

54+00

INTERSTATE 91 (SOUTHBOUND)

N58°18'05"E

SB 4794+00

SB 4795+00

SB 4796+00

SB 4797+00

SB 4798+00

MATCHLINE STA. 4793+00

MATCHLINE STA. 4799+00

N02°15'55"W

53+00

52+00

INTERSTATE 91 (NORTHBOUND)

N58°18'05"E

NB 4794+00

NB 4795+00

NB 4796+00

NB 4797+00

NB 4798+00

N54°21'16"E

51+00

50+00

APPROX. EXISTING R.O.W.

CONCEPTUAL ACCESS ROAD AND STAGING AREA

VT STATE PLANE GRID

0 20 40

SCALE IN FEET

Stantec

PROJECT NAME:	FAIRLEE
PROJECT NUMBER:	IM 091-2(91)
FILE NAME: z21a024epsc_bdr_const.dgn	PLOT DATE: 3-APR-2024
PROJECT LEADER: J. GRIGAS	DRAWN BY: P.ARMATA
DESIGNED BY: K. RICHARDSON	CHECKED BY: J. GRIGAS
EPSC - CONSTRUCTION PLAN SHEET 5	SHEET 89 OF 100

N

VT STATE PLANE GRID

NUSH

420'

APPROX. EXISTING R.O.W.

430'

430'

430'

430'

430'

PROTECT AND
COVER DROP INLET

PROTECT AND
COVER DROP INLET

N58°18'05"E

INTERSTATE 91 (SOUTHBOUND)

99+00 | SB 4800+00 | SB 4801+00 | SB 4802+00 | SB 4803+00 | SB 4804+00 | SB 48

MATCHLINE STA. 4799+00

MATCHLINE STA. 4805+00

430'

430'

430'

430'

430'

430'

N58°18'05"E

INTERSTATE 91 (NORTHBOUND)

99+00 | NB 4800+00 | NB 4801+00 | NB 4802+00 | NB 4803+00 | NB 4804+00 | NB 48

430'

430'

430'

430'

APPROX. EXISTING R.O.W.

0 20 40

SCALE IN FEET

Stantec

PROJECT NAME:	FAIRLEE		
PROJECT NUMBER:	IM 091-2(91)		
FILE NAME:	z21a024epsc_bdr_const.dgn	PLOT DATE:	3-APR-2024
PROJECT LEADER:	J. GRIGAS	DRAWN BY:	P.ARMATA
DESIGNED BY:	K. RICHARDSON	CHECKED BY:	J. GRIGAS
EPSC - CONSTRUCTION PLAN SHEET 6		SHEET 90 OF 100	

N

VT STATE PLANE GRID

PC 4810+86.12

INTERSTATE 91 (SOUTHBOUND)

05+00 | SB 4806+00 | SB 4807+00 | SB 4808+00 | SB 4809+00 | SB 4810+00 | SB 48

MATCHLINE STA. 4805+00

PC 4811+01.08

MATCHLINE STA. 4811+00

PROTECT AND
COVER DROP INLET

INTERSTATE 91 (NORTHBOUND)

05+00 | NB 4806+00 | NB 4807+00 | NB 4808+00 | NB 4809+00 | NB 4810+00 | NB 48

440'

0 20 40

SCALE IN FEET

Stantec

PROJECT NAME:	FAIRLEE
PROJECT NUMBER:	IM 091-2(91)

FILE NAME:	z21a024epsc_bdr_const.dgn	PLOT DATE:	3-APR-2024
PROJECT LEADER:	J. GRIGAS	DRAWN BY:	P.ARMATA
DESIGNED BY:	K. RICHARDSON	CHECKED BY:	J. GRIGAS
EPSC - CONSTRUCTION PLAN SHEET 7		SHEET 91 OF 100	

N

VT STATE PLANE GRID

440'

INTERSTATE 91 (SOUTHBOUND)

SB 4811+00

SB 4812+00

SB 4813+00

SB 4814+00

SB 4815+00

SB 4816+00

SB 4817+00

MATCHLINE STA. 4811+00

INTERSTATE 91 (NORTHBOUND)

NB 4811+00

NB 4812+00

NB 4813+00

NB 4814+00

NB 4815+00

NB 4816+00

NB 4817+00

TO BRADFORD

PI 4816+57.73

CURVE (x)
DELTA = 16
D = 01°28'2
R = 3885.00
T = 571.61'
L = 1135.08
E = 41.83'

PI 4816+68.53

CURVE (x)
DELTA = 16°44'24"
D = 01°29'08"
R = 3857.00'
T = 567.49'
L = 1126.90'
E = 41.52'

0 20 40

SCALE IN FEET

Stantec

PROJECT NAME: FAIRLEE
PROJECT NUMBER: IM 091-2(91)

FILE NAME: z21a024epsc_bdr_const.dgn
PROJECT LEADER: J. GRIGAS
DESIGNED BY: K. RICHARDSON
EPSC - CONSTRUCTION PLAN SHEET 8

PLOT DATE: 3-APR-2024
DRAWN BY: P.ARMATA
CHECKED BY: J. GRIGAS
SHEET 92 OF 100

N

VT STATE PLANE GRID

INTERSTATE 91 (SOUTHBOUND)

SB 4770+00 | SB 4771+00 | SB 4772+00 | SB 4773+00 | SB 4774+00 | SB 4775+00

MATCHLINE STA. 4775+50

INTERSTATE 91 (NORTHBOUND)

NB 4770+00 | NB 4771+00 | NB 4772+00 | NB 4773+00 | NB 4774+00 | NB 4775+00

MATCHLINE STA. 4775+50

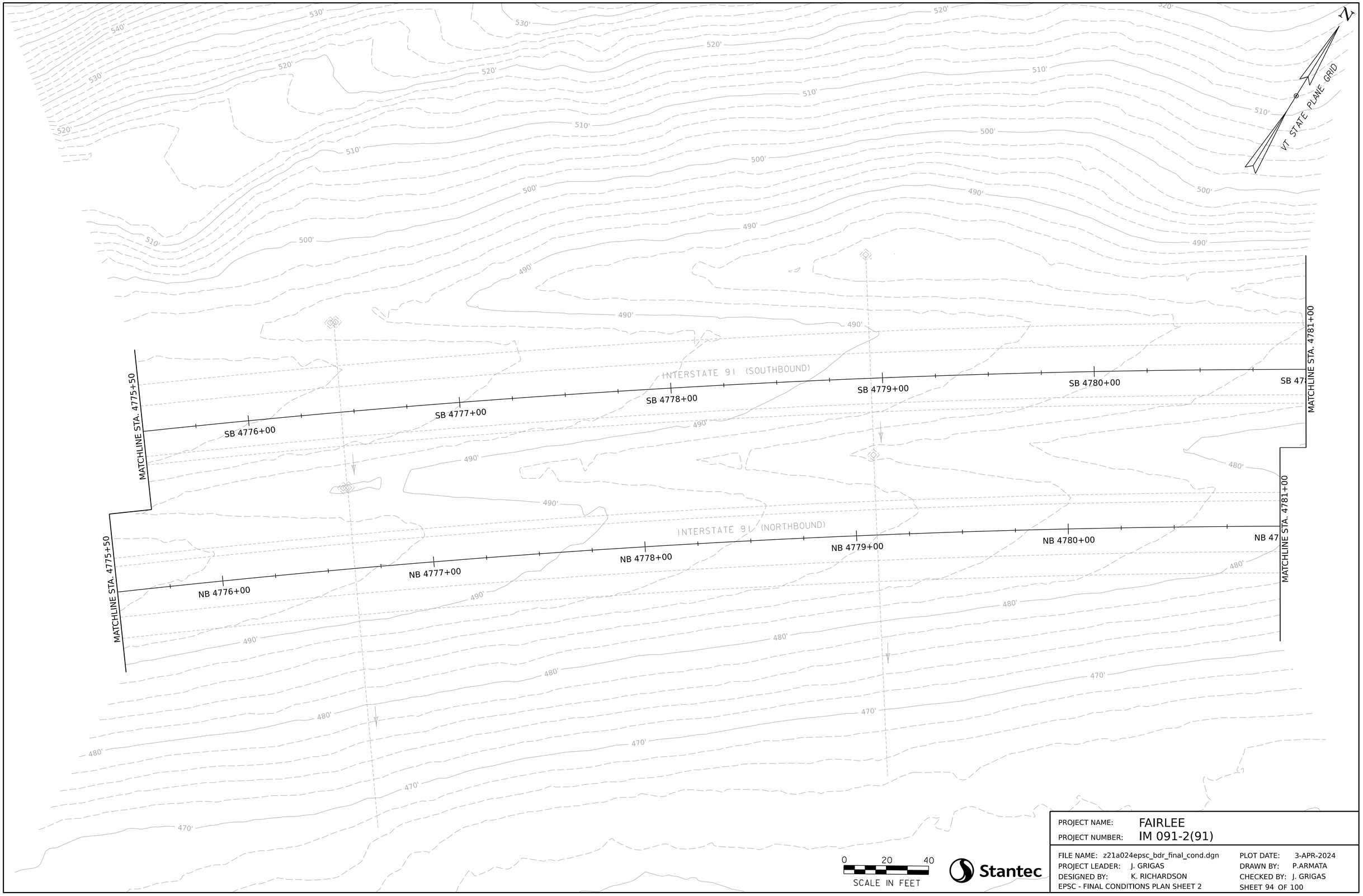
TO THETFORD

0 20 40

SCALE IN FEET

Stantec

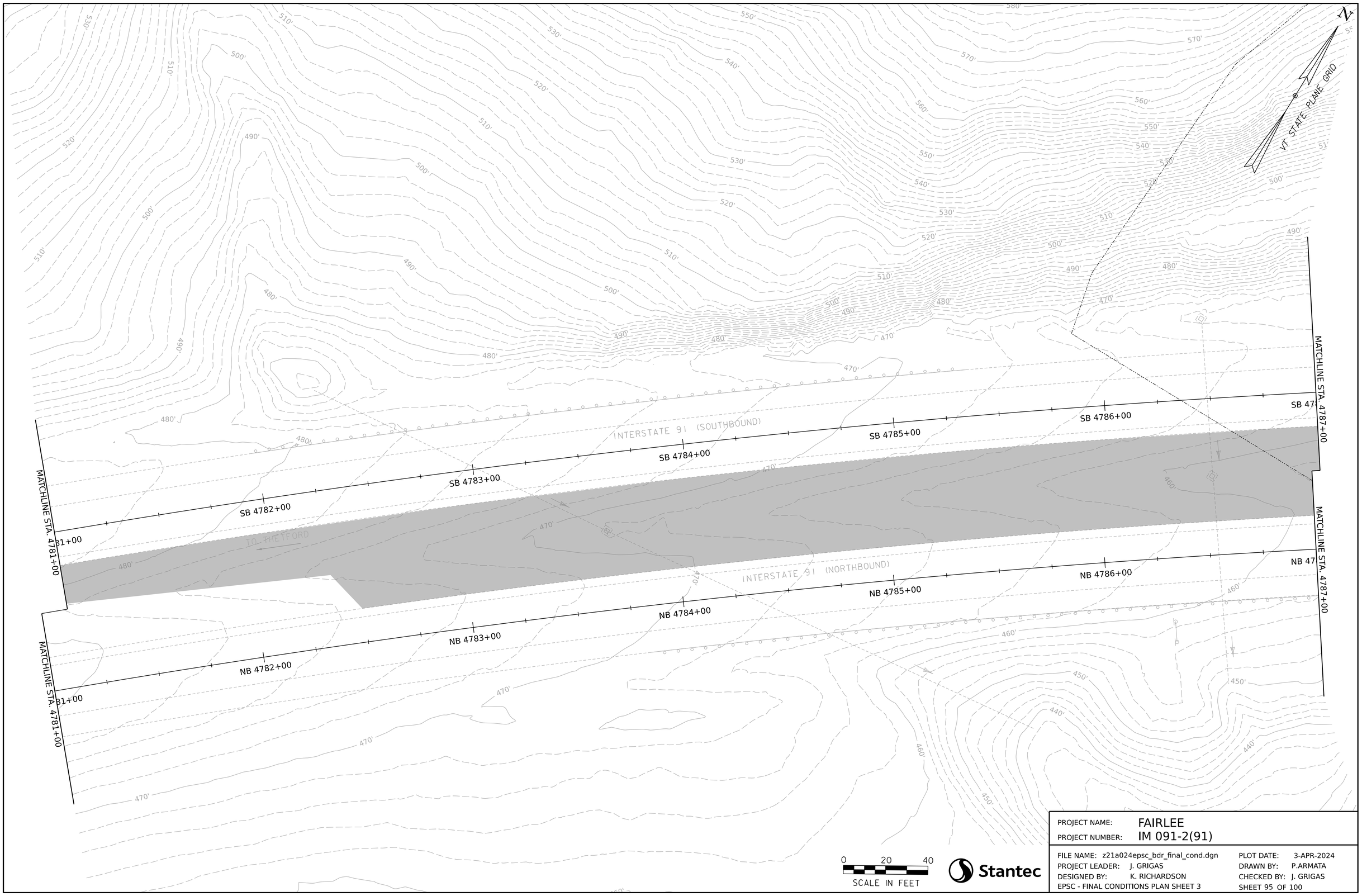
PROJECT NAME:	FAIRLEE
PROJECT NUMBER:	IM 091-2(91)
FILE NAME: z21a024epsc_bdr_final_cond.dgn	PLOT DATE: 3-APR-2024
PROJECT LEADER: J. GRIGAS	DRAWN BY: P.ARMATA
DESIGNED BY: K. RICHARDSON	CHECKED BY: J. GRIGAS
EPSC - FINAL CONDITIONS PLAN SHEET 1	SHEET 93 OF 100



Stantec

PROJECT NAME:	FAIRLEE
PROJECT NUMBER:	IM 091-2(91)

FILE NAME:	z21a024epsc_bdr_final_cond.dgn	PLOT DATE:	3-APR-2024
PROJECT LEADER:	J. GRIGAS	DRAWN BY:	P.ARMATA
DESIGNED BY:	K. RICHARDSON	CHECKED BY:	J. GRIGAS
EPSC - FINAL CONDITIONS PLAN SHEET 2		SHEET 94 OF 100	



Stantec

PROJECT NAME:	FAIRLEE
PROJECT NUMBER:	IM 091-2(91)
FILE NAME: z21a024epsc_bdr_final_cond.dgn	PLOT DATE: 3-APR-2024
PROJECT LEADER: J. GRIGAS	DRAWN BY: P.ARMATA
DESIGNED BY: K. RICHARDSON	CHECKED BY: J. GRIGAS
EPSC - FINAL CONDITIONS PLAN SHEET 3	SHEET 95 OF 100

APPROX. EXISTING R.O.W.

N

VT STATE PLANE GRID

INTERSTATE 91 (SOUTHBOUND)

SB 4787+00 | SB 4788+00 | SB 4789+00 | SB 4790+00 | SB 4791+00 | SB 4792+00 | SB 47

MATCHLINE STA. 4787+00

MATCHLINE STA. 4793+00

PT 4789+79.30

PT 4789+79.00

INTERSTATE 91 (NORTHBOUND)

NB 4787+00 | NB 4788+00 | NB 4789+00 | NB 4790+00 | NB 4791+00 | NB 4792+00 | NB 47

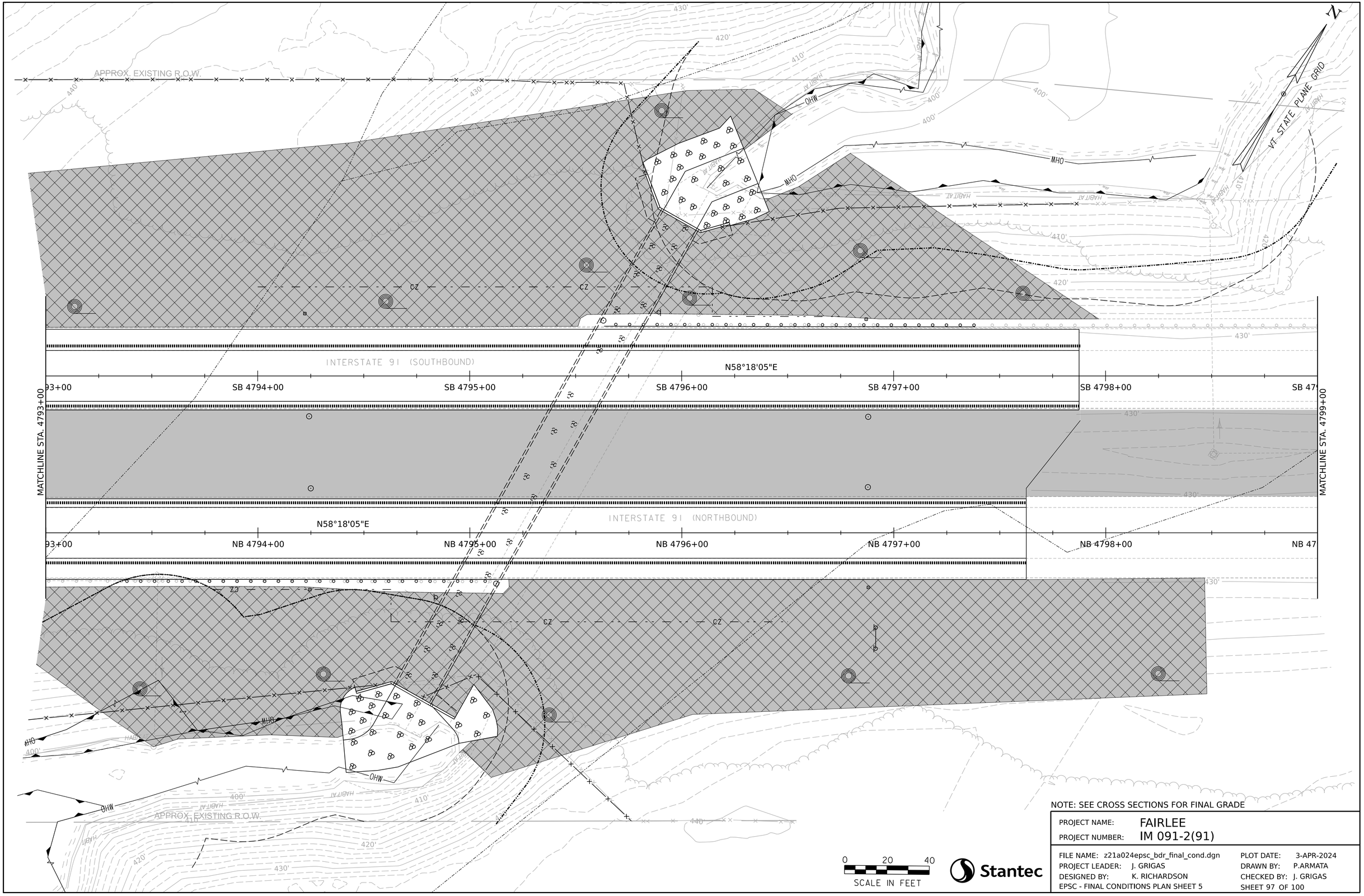
APPROX. EXISTING R.O.W.

0 20 40

SCALE IN FEET

Stantec

PROJECT NAME:	FAIRLEE
PROJECT NUMBER:	IM 091-2(91)
FILE NAME: z21a024epsc_bdr_final_cond.dgn	PLOT DATE: 3-APR-2024
PROJECT LEADER: J. GRIGAS	DRAWN BY: P.ARMATA
DESIGNED BY: K. RICHARDSON	CHECKED BY: J. GRIGAS
EPSC - FINAL CONDITIONS PLAN SHEET 4	SHEET 96 OF 100



NOTE: SEE CROSS SECTIONS FOR FINAL GRADE

PROJECT NAME: FAIRLEE
PROJECT NUMBER: IM 091-2(91)

FILE NAME: z21a024epsc_bdr_final_cond.dgn
PROJECT LEADER: J. GRIGAS
DESIGNED BY: K. RICHARDSON
EPSC - FINAL CONDITIONS PLAN SHEET 5

PLOT DATE: 3-APR-2024
DRAWN BY: P.ARMATA
CHECKED BY: J. GRIGAS
SHEET 97 OF 100

Stantec

N

VT STATE PLANE GRID

N58°18'05"E

INTERSTATE 91 (SOUTHBOUND)

99+00 | SB 4800+00 | SB 4801+00 | SB 4802+00 | SB 4803+00 | SB 4804+00 | SB 48

MATCHLINE STA. 4799+00

MATCHLINE STA. 4805+00

N58°18'05"E

INTERSTATE 91 (NORTHBOUND)

99+00 | NB 4800+00 | NB 4801+00 | NB 4802+00 | NB 4803+00 | NB 4804+00 | NB 48

APPROX. EXISTING R.O.W.

APPROX. EXISTING R.O.W.

0 20 40

SCALE IN FEET

Stantec

PROJECT NAME:	FAIRLEE
PROJECT NUMBER:	IM 091-2(91)
FILE NAME: z21a024epsc_bdr_final_cond.dgn	PLOT DATE: 3-APR-2024
PROJECT LEADER: J. GRIGAS	DRAWN BY: P.ARMATA
DESIGNED BY: K. RICHARDSON	CHECKED BY: J. GRIGAS
EPSC - FINAL CONDITIONS PLAN SHEET 6	SHEET 98 OF 100

N

VT STATE PLANE GRID

PC 4810+86.12

INTERSTATE 91 (SOUTHBOUND)

05+00 | SB 4806+00 | SB 4807+00 | SB 4808+00 | SB 4809+00 | SB 4810+00 | SB 48

MATCHLINE STA. 4805+00

PC 4811+01.08

MATCHLINE STA. 4811+00

440'

INTERSTATE 91 (NORTHBOUND)

05+00 | NB 4806+00 | NB 4807+00 | NB 4808+00 | NB 4809+00 | NB 4810+00 | NB 48

0 20 40

SCALE IN FEET

Stantec

PROJECT NAME: FAIRLEE

PROJECT NUMBER: IM 091-2(91)

FILE NAME: z21a024epsc_bdr_final_cond.dgn
PROJECT LEADER: J. GRIGAS
DESIGNED BY: K. RICHARDSON
EPSC - FINAL CONDITIONS PLAN SHEET 7

PLOT DATE: 3-APR-2024
DRAWN BY: P.ARMATA
CHECKED BY: J. GRIGAS
SHEET 99 OF 100

N

VT STATE PLANE GRID

440'

INTERSTATE 91 (SOUTHBOUND)

SB 4811+00

SB 4812+00

SB 4813+00

SB 4814+00

SB 4815+00

SB 4816+00

SB 4817+00

MATCHLINE STA. 4811+00

TO BRADFORD

INTERSTATE 91 (NORTHBOUND)

NB 4811+00

NB 4812+00

NB 4813+00

NB 4814+00

NB 4815+00

NB 4816+00

NB 4817+00

PI 4816+57.73

CURVE (x)
DELTA = 16
D = 01°28'2
R = 3885.00
T = 571.61'
L = 1135.08
E = 41.83'

PI 4816+68.53

CURVE (x)
DELTA = 16°44'24"
D = 01°29'08"
R = 3857.00'
T = 567.49'
L = 1126.90'
E = 41.52'

0 20 40

SCALE IN FEET

Stantec

PROJECT NAME:	FAIRLEE
PROJECT NUMBER:	IM 091-2(91)
FILE NAME: z21a024epsc_bdr_final_cond.dgn	PLOT DATE: 3-APR-2024
PROJECT LEADER: J. GRIGAS	DRAWN BY: P.ARMATA
DESIGNED BY: K. RICHARDSON	CHECKED BY: J. GRIGAS
EPSC - FINAL CONDITIONS PLAN SHEET 8	SHEET 100OF 100